

AP - 50

ANNUAL MONITORING REPORT

YEAR(S):
2004

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 1770

January 21, 2005

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

**RE: 2004 MONITOR WELL REPORT/SAMPLING SUMMARY
ZACHARY HINTON EOL, BD SWD SYSTEM
UNIT 'O', SEC. 12, T22S, R37E
NMOCD CASE #1R0426-36**

Mr. Price:

As a supplement to the closure petition submitted by R. T. Hicks Consultants, Ltd. (Hicks) of Albuquerque, Rice Operating Company (ROC) takes this opportunity to submit the 2004 Monitor Well Report for the Zachary Hinton EOL junction box site located in the Blinebry-Drinkard (BD) Salt Water Disposal (SWD) System. The site has one monitor well that is sampled quarterly pursuant to NMOCD guidelines. Groundwater impact was suspected during the delineation and remediation process of the Junction Box Upgrade. The well was installed in 2002.

In 2004, ROC and Arcadis G&M, Inc. of Midland, Texas sampled the well. In 2005, Basin Environmental Service Technologies of Lovington will sample the well and Environmental Lab of Texas of Odessa will continue to conduct analytical tests of the water samples.

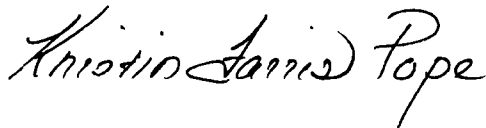
Hicks has been investigating potential environmental concerns at this site under an NMOCD-approved work plan (July 2, 2003). On January 30, 2004, Hicks submitted a final Corrective Action Plan (CAP) and a petition for closure which proposes the plugging and abandonment of the monitor well as the water quality is reflective of background concentrations.

On December 3, 2004, NMOCD requested additional information via email. This information was emailed and mailed on December 8, 2004 by Hicks. ROC would appreciate your prompt review of this information.

Thank you for your consideration concerning this annual summary of groundwater monitoring information. If you have any questions, do not hesitate to contact me.

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

RICE OPERATING COMAPANY

A handwritten signature in cursive script that reads "Kristin Farris Pope".

Kristin Farris Pope
Project Scientist

enclosures: Summary table & graph
 Analytical results
 Map

cc: LBG, CDH, Hicks, file, Rob Roy Industries,

Chris Williams
NMOCD, District I Office
1625 N. French Drive
Hobbs, NM 88240

BD jct. O-12 (Zachary Hinton)

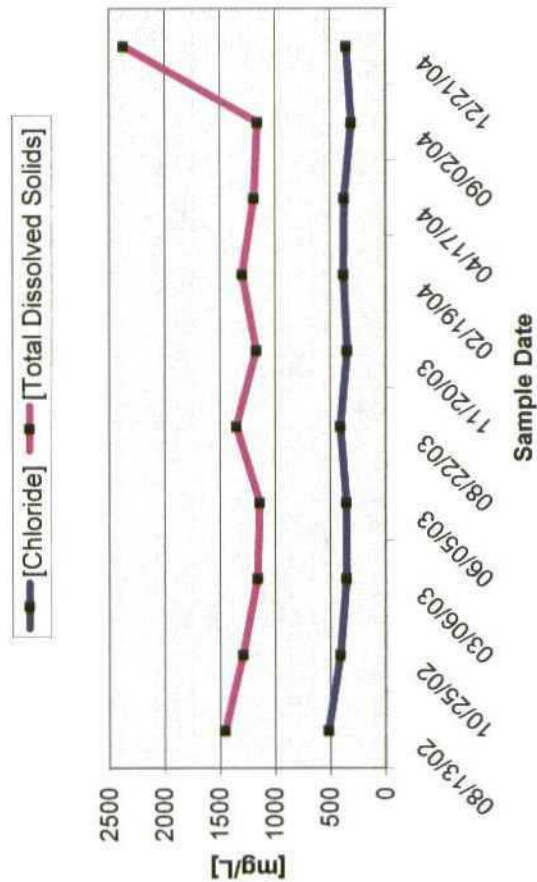
unit 'O', Sec. 12, T22S, R37E

NMOCD CASE #IR0426-36

All concentrations are in mg/L

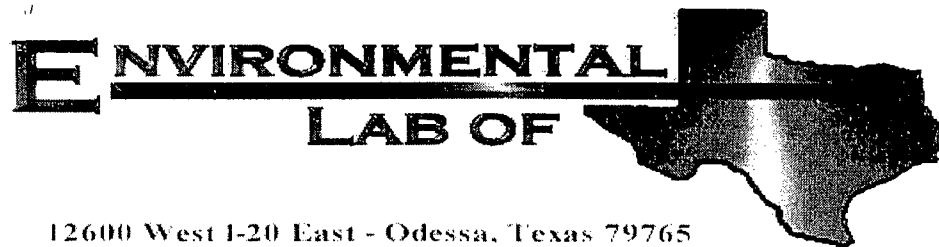
MW #	DEPTH TO WATER *	TOTAL DEPTH	WELL VOLUME	VOLUME PURGED	SAMPLE DATE	Cl ⁻	TDS	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	COMMENTS
1	56.10	66.7	1.700	5.00	08/13/02	514	1450	<0.001	<0.001	<0.001	<0.001	red & silty
1	56.14	66.65	1.682	5.25	10/25/02	408	1290	<0.001	<0.001	<0.001	<0.001	
1	56.07	66.54	1.670	5.00	03/06/03	354	1160	<0.001	<0.001	<0.001	<0.001	
1	56.00	66.58	1.692	5.00	06/05/03	354	1140	<0.001	<0.001	<0.001	<0.001	
1	56.00	66.40	1.600	4.90	08/22/03	408	1350	<0.001	<0.001	<0.001	<0.001	
1	56.00	66.45	1.600	5.00	11/20/03	346	1170	<0.001	<0.001	<0.001	<0.001	
1	56.59	66.50	1.590	4.80	02/19/04	380	1297	<0.002	<0.002	<0.002	<0.006	
1	55.65	66.50	1.660	5.00	04/17/04	372	1190	<0.001	<0.001	<0.001	<0.001	
1	56.00	67.00	XXX	XXX	09/02/04	310	1160	<0.001	<0.001	<0.001	<0.001	lt. brown; cloudy
1	55.90	58.00	XXX	1.05	12/21/04	354	2370	<0.001	<0.001	<0.001	<0.001	tan, silty

BD jct. O-12 (Zachary Hinton) Monitor Well



* Depth to water is measured from top of casing
Casing is 3.458 ft





12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Sharon Hall

ARCADIS

1004 N. Big Spring Street

Midland, TX 79701

Project: Zachary Hinton / 729

Project Number: Zachary Hinton/729

Location: Rice Operating/ BD

Lab Order Number: 4L22012

Report Date: 12/30/04

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Zachary Hinton / 729
Project Number: Zachary Hinton/729
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
12/30/04 15:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	4L22012-01	Water	12/21/04 16:55	12/21/04 18:00

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Zachary Hinton / 729
Project Number: Zachary Hinton/729
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
12/30/04 15:44

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4L22012-01) Water									
Benzene	ND	0.00100	mg/L	1	EL43007	12/29/04	12/30/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		97.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.3 %	80-120		"	"	"	"	

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Zachary Hinton / 729
Project Number: Zachary Hinton/729
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
12/30/04 15:44

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4L22012-01) Water									
Total Alkalinity	190	2.00	mg/L	1	EL42907	12/29/04	12/29/04	EPA 310.2M	
Chloride	354	5.00	"	"	EL42908	12/29/04	12/29/04	EPA 325.3M	
Total Dissolved Solids	2370	5.00	"	"	EL42301	12/22/04	12/23/04	EPA 160.1	
Sulfate	261	2.50	"	5	EL42909	12/29/04	12/29/04	EPA 375.4	

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Midland TX, 79701

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Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
01/03/05 15:09

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4L22012-01) Water									
Calcium	109	1.00	mg/L	100	EL42302	12/23/04	12/23/04	EPA 6010B	
Magnesium	66.8	0.100	"	"	"	"	"	"	
Potassium	10.8	0.500	"	10	"	"	"	"	
Sodium	190	1.00	"	100	"	"	"	"	

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Reported:
12/30/04 15:44

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL43007 - EPA 5030C (GC)

Blank (EL43007-BLK1)

Prepared: 12/29/04 Analyzed: 12/30/04

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	90.9		ug/l	100		90.9	80-120			
Surrogate: 4-Bromofluorobenzene	80.2		"	100		80.2	80-120			

LCS (EL43007-BS1)

Prepared: 12/29/04 Analyzed: 12/30/04

Benzene	87.9		ug/l	100		87.9	80-120			
Toluene	88.5		"	100		88.5	80-120			
Ethylbenzene	97.5		"	100		97.5	80-120			
Xylene (p/m)	219		"	200		110	80-120			
Xylene (o)	111		"	100		111	80-120			
Surrogate: a,a,a-Trifluorotoluene	109		"	100		109	80-120			
Surrogate: 4-Bromofluorobenzene	119		"	100		119	80-120			

Calibration Check (EL43007-CCV1)

Prepared: 12/29/04 Analyzed: 12/30/04

Benzene	87.8		ug/l	100		87.8	80-120			
Toluene	89.0		"	100		89.0	80-120			
Ethylbenzene	95.3		"	100		95.3	80-120			
Xylene (p/m)	213		"	200		106	80-120			
Xylene (o)	104		"	100		104	80-120			
Surrogate: a,a,a-Trifluorotoluene	113		"	100		113	80-120			
Surrogate: 4-Bromofluorobenzene	116		"	100		116	80-120			

Matrix Spike (EL43007-MS1)

Source: 4L22009-05

Prepared: 12/29/04 Analyzed: 12/30/04

Benzene	88.6		ug/l	100	ND	88.6	80-120			
Toluene	85.4		"	100	ND	85.4	80-120			
Ethylbenzene	87.9		"	100	ND	87.9	80-120			
Xylene (p/m)	186		"	200	ND	93.0	80-120			
Xylene (o)	94.2		"	100	ND	94.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	107		"	100		107	80-120			
Surrogate: 4-Bromofluorobenzene	119		"	100		119	80-120			

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Project Number: Zachary Hinton/729
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
12/30/04 15:44

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL43007 - EPA 5030C (GC)

Matrix Spike Dup (EL43007-MSD1)

Source: 4L22009-05

Prepared: 12/29/04

Analyzed: 12/30/04

Benzene	92.9		ug/l	100	ND	92.9	80-120	4.74	20	
Toluene	86.0		"	100	ND	86.0	80-120	0.700	20	
Ethylbenzene	87.2		"	100	ND	87.2	80-120	0.800	20	
Xylene (p/m)	164		"	200	ND	82.0	80-120	12.6	20	
Xylene (o)	86.7		"	100	ND	86.7	80-120	8.29	20	
Surrogate: a,a,a-Trifluorotoluene	112		"	100		112	80-120			
Surrogate: 4-Bromofluorobenzene	117		"	100		117	80-120			

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Reported:
12/30/04 15:44

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL42301 - 413.1

Blank (EL42301-BLK1)

Prepared: 12/22/04 Analyzed: 12/23/04

Total Dissolved Solids ND 5.00 mg/L

Duplicate (EL42301-DUP1)

Source: 4L21010-01

Prepared: 12/22/04 Analyzed: 12/23/04

Total Dissolved Solids 590 5.00 mg/L 567 3.98 20

Batch EL42907 - General Preparation (WetChem)

Blank (EL42907-BLK1)

Prepared & Analyzed: 12/29/04

Total Alkalinity ND 2.00 mg/L

Duplicate (EL42907-DUP1)

Source: 4L22002-01

Prepared & Analyzed: 12/29/04

Total Alkalinity 181 2.00 mg/L 182 0.551 20

Reference (EL42907-SRM1)

Prepared & Analyzed: 12/29/04

Carbonate Alkalinity 0.0501 mg/L 0.0500 100 80-120

Batch EL42908 - General Preparation (WetChem)

Blank (EL42908-BLK1)

Prepared & Analyzed: 12/29/04

Chloride ND 5.00 mg/L

Matrix Spike (EL42908-MS1)

Source: 4L21010-01

Prepared & Analyzed: 12/29/04

Chloride 390 5.00 mg/L 250 155 94.0 80-120

Matrix Spike Dup (EL42908-MSD1)

Source: 4L21010-01

Prepared & Analyzed: 12/29/04

Chloride 394 5.00 mg/L 250 155 95.6 80-120 1.02 20

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Reported:
12/30/04 15:44

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL42908 - General Preparation (WetChem)

Reference (EL42908-SRM1)

Prepared & Analyzed: 12/29/04

Chloride	4960		mg/L	5000		99.2	80-120			
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Batch EL42909 - General Preparation (WetChem)

Blank (EL42909-BLK1)

Prepared & Analyzed: 12/29/04

Sulfate	ND	0.500	mg/L							
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Calibration Check (EL42909-CCV1)

Prepared & Analyzed: 12/29/04

Sulfate	48.9		mg/L	50.0		97.8	80-120			
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Duplicate (EL42909-DUP1)

Source: 4L21010-01

Prepared & Analyzed: 12/29/04

Sulfate	96.6	1.00	mg/L		99.8			3.26	20	
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ARCADIS
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Midland TX, 79701

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Project Number: Zachary Hinton/729
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
01/03/05 15:09

Total Metals by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL42302 - 6010B/No Digestion

Blank (EL42302-BLK1)

Prepared & Analyzed: 12/23/04

Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							

Calibration Check (EL42302-CCV1)

Prepared & Analyzed: 12/23/04

Calcium	2.00		mg/L	2.00		100	85-115			
Magnesium	2.28		"	2.00		114	85-115			
Potassium	1.78		"	2.00		89.0	85-115			
Sodium	1.92		"	2.00		96.0	85-115			

Duplicate (EL42302-DUP1)

Source: 4L21010-01RE1 Prepared & Analyzed: 12/23/04

Calcium	55.1	0.100	mg/L		57.3			3.91	20	
Magnesium	13.2	0.0100	"		13.0			1.53	20	
Potassium	12.5	0.500	"		13.2			5.45	20	
Sodium	105	1.00	"		112			6.45	20	

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Zachary Hinton / 729
Project Number: Zachary Hinton/729
Project Manager: Sharon Hall

Fax: (432) 687-5401
Reported:
12/30/04 15:44

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By: Coley D. Keene

Date: 01/03/05

Raland K. Tuttle, Lab Manager
Coley D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Arcadis

Date/Time: 12-21-04 @ 1800

Order #: 4L22012

Initials: JMM

Sample Receipt Checklist

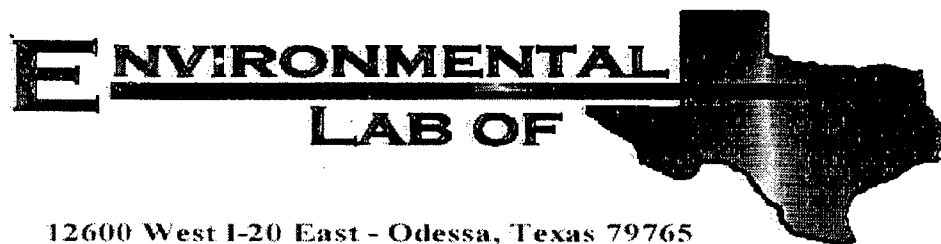
Temperature of container/cooler?	<input checked="" type="checkbox"/> Yes	No	I.O	C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	No		
Custody Seals intact on shipping container/cooler?	Yes	No	Not present	
Custody Seals intact on sample bottles?	Yes	No	Not present	
Chain of custody present?	<input checked="" type="checkbox"/> Yes	No		
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No		
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/> Yes	No		
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/> Yes	No		
Container labels legible and intact?	<input checked="" type="checkbox"/> Yes	No		
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	No		
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	No		
Samples properly preserved?	<input checked="" type="checkbox"/> Yes	No		
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	No		
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No		
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No		
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	No		
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	No		
VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	No	Not Applicable	

Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____
Regarding: _____

Corrective Action Taken:



Analytical Report

Prepared for:

Sharon Hall

ARCADIS

1004 N. Big Spring Street

Midland, TX 79701

Project: Zachary Hinton / 729

Project Number: Zachary Hinton/729

Location: Rice Operating/BD

Lab Order Number: 4I03013

Report Date: 09/19/04

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Zachary Hinton / 729
Project Number: Zachary Hinton/729
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
09/19/04 11:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	4103013-01	Water	09/02/04 17:30	09/03/04 14:40

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Zachary Hinton / 729
Project Number: Zachary Hinton/729
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
09/19/04 11:52

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4103013-01) Water									
Benzene	ND	0.00100	mg/L	1	EI41004	09/08/04	09/08/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		108 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	80-120		"	"	"	"	

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Fax: (432) 687-5401

Reported:
09/19/04 11:52

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4103013-01) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EI41608	09/03/04	09/03/04	EPA 310.2M	
Bicarbonate Alkalinity	182	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	310	5.00	"	"	EI40805	09/07/04	09/07/04	EPA 325.3M	
Total Dissolved Solids	1160	5.00	"	"	EI41607	09/09/04	09/09/04	EPA 160.1	
Sulfate	258	2.50	"	5	EI41312	09/10/04	09/10/04	EPA 375.4	

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Fax: (432) 687-5401

Reported:
09/19/04 11:52

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4I03013-01) Water									
Calcium	93.0	1.00	mg/L	100	EI41506	09/15/04	09/15/04	EPA 6010B	
Magnesium	48.6	0.0100	"	10	"	"	"	"	
Potassium	9.51	0.500	"	"	"	"	"	"	
Sodium	186	1.00	"	100	"	"	"	"	

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Reported:
09/19/04 11:52

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EI41004 - EPA 5030C (GC)

Blank (EI41004-BLK1)

Prepared & Analyzed: 09/08/04

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	23.4		ug/l	20.0		117	80-120			
Surrogate: 4-Bromofluorobenzene	18.3		"	20.0		91.5	80-120			

LCS (EI41004-BS1)

Prepared: 09/08/04 Analyzed: 09/10/04

Benzene	93.0		ug/l	100		93.0	80-120			
Toluene	95.0		"	100		95.0	80-120			
Ethylbenzene	95.1		"	100		95.1	80-120			
Xylene (p/m)	196		"	200		98.0	80-120			
Xylene (o)	104		"	100		104	80-120			
Surrogate: a,a,a-Trifluorotoluene	16.7		"	20.0		83.5	80-120			
Surrogate: 4-Bromofluorobenzene	18.6		"	20.0		93.0	80-120			

LCS Dup (EI41004-BSD1)

Prepared: 09/08/04 Analyzed: 09/10/04

Benzene	96.3		ug/l	100		96.3	80-120	3.49	20	
Toluene	99.4		"	100		99.4	80-120	4.53	20	
Ethylbenzene	99.5		"	100		99.5	80-120	4.52	20	
Xylene (p/m)	206		"	200		103	80-120	4.98	20	
Xylene (o)	105		"	100		105	80-120	0.957	20	
Surrogate: a,a,a-Trifluorotoluene	18.0		"	20.0		90.0	80-120			
Surrogate: 4-Bromofluorobenzene	21.9		"	20.0		110	80-120			

Calibration Check (EI41004-CCV1)

Prepared & Analyzed: 09/08/04

Benzene	94.3		ug/l	100		94.3	80-120			
Toluene	95.8		"	100		95.8	80-120			
Ethylbenzene	102		"	100		102	80-120			
Xylene (p/m)	207		"	200		104	80-120			
Xylene (o)	105		"	100		105	80-120			
Surrogate: a,a,a-Trifluorotoluene	23.0		"	20.0		115	80-120			
Surrogate: 4-Bromofluorobenzene	18.6		"	20.0		93.0	80-120			

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Zachary Hinton / 729
Project Number: Zachary Hinton/729
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
09/19/04 11:52

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EI41004 - EPA 5030C (GC)

Matrix Spike (EI41004-MS1)

Source: 4I07001-01

Prepared: 09/08/04 Analyzed: 09/10/04

Benzene	97.5		ug/l	100	ND	97.5	80-120			
Toluene	101		"	100	ND	101	80-120			
Ethylbenzene	97.8		"	100	ND	97.8	80-120			
Xylene (p/m)	203		"	200	ND	102	80-120			
Xylene (o)	102		"	100	ND	102	80-120			
Surrogate: a,a,a-Trifluorotoluene	17.2		"	20.0		86.0	80-120			
Surrogate: 4-Bromofluorobenzene	20.9		"	20.0		104	80-120			

Matrix Spike Dup (EI41004-MSD1)

Source: 4I07001-01

Prepared: 09/08/04 Analyzed: 09/10/04

Benzene	99.0		ug/l	100	ND	99.0	80-120	1.53	20	
Toluene	101		"	100	ND	101	80-120	0.00	20	
Ethylbenzene	99.6		"	100	ND	99.6	80-120	1.82	20	
Xylene (p/m)	201		"	200	ND	100	80-120	1.98	20	
Xylene (o)	100		"	100	ND	100	80-120	1.98	20	
Surrogate: a,a,a-Trifluorotoluene	16.5		"	20.0		82.5	80-120			
Surrogate: 4-Bromofluorobenzene	19.3		"	20.0		96.5	80-120			

Environmental Lab of Texas

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Page 6 of 11

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Zachary Hinton / 729
Project Number: Zachary Hinton/729
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
09/19/04 11:52

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EI40805 - General Preparation (WetChem)

Blank (EI40805-BLK1)

Prepared & Analyzed: 09/07/04

Chloride	ND	5.00	mg/L
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Matrix Spike (EI40805-MS1)

Source: 4I07001-06

Prepared & Analyzed: 09/07/04

Chloride	1670	5.00	mg/L	500	1170	100	90-110
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Matrix Spike Dup (EI40805-MSD1)

Source: 4I07001-06

Prepared & Analyzed: 09/07/04

Chloride	1660	5.00	mg/L	500	1170	98.0	90-110	0.601	20
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Reference (EI40805-SRM1)

Prepared & Analyzed: 09/07/04

Chloride	4960		mg/L	5000		99.2	80-120
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Batch EI41312 - General Preparation (WetChem)

Blank (EI41312-BLK1)

Prepared & Analyzed: 09/10/04

Sulfate	ND	0.500	mg/L
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Calibration Check (EI41312-CCV1)

Prepared & Analyzed: 09/10/04

Sulfate	48.9		mg/L	50.0		97.8	80-120
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Duplicate (EI41312-DUP1)

Source: 4I03010-01

Prepared & Analyzed: 09/10/04

Sulfate	76.4	0.500	mg/L		74.6			2.38	20
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Batch EI41607 - Filtration Preparation

Blank (EI41607-BLK1)

Prepared & Analyzed: 09/09/04

Total Dissolved Solids	ND	5.00	mg/L
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ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Zachary Hinton / 729
Project Number: Zachary Hinton/729
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
09/19/04 11:52

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EI41607 - Filtration Preparation

Duplicate (EI41607-DUP1) Source: 4I03010-01 Prepared & Analyzed: 09/09/04

Total Dissolved Solids	1610	5.00	mg/L		1640			1.85	20	
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Batch EI41608 - General Preparation (WetChem)

Blank (EI41608-BLK1) Prepared & Analyzed: 09/03/04

Carbonate Alkalinity	ND	0.100	mg/L							
Bicarbonate Alkalinity	ND	2.00	"							
Hydroxide Alkalinity	ND	0.100	"							

Duplicate (EI41608-DUP1) Source: 4I03010-01 Prepared & Analyzed: 09/03/04

Carbonate Alkalinity	0.00	0.100	mg/L		0.00				20	
Bicarbonate Alkalinity	444	2.00	"		446			0.449	20	
Hydroxide Alkalinity	0.00	0.100	"		0.00				20	

Reference (EI41608-SRM1) Prepared & Analyzed: 09/03/04

Carbonate Alkalinity	0.0501		mg/L	0.0500		100	80-120			
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ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Zachary Hinton / 729
Project Number: Zachary Hinton/729
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
09/19/04 11:52

Total Metals by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EI41506 - General Preparation (Metals)

Blank (EI41506-BLK1)

Prepared & Analyzed: 09/15/04

Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							

Blank (EI41506-BLK2)

Prepared & Analyzed: 09/15/04

Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							

Calibration Check (EI41506-CCV1)

Prepared & Analyzed: 09/15/04

Calcium	2.03		mg/L	2.00		102	85-115			
Magnesium	2.04		"	2.00		102	85-115			
Potassium	1.75		"	2.00		87.5	85-115			
Sodium	1.79		"	2.00		89.5	85-115			

Calibration Check (EI41506-CCV2)

Prepared & Analyzed: 09/15/04

Calcium	1.93		mg/L	2.00		96.5	85-115			
Magnesium	2.02		"	2.00		101	85-115			
Potassium	1.76		"	2.00		88.0	85-115			
Sodium	1.77		"	2.00		88.5	85-115			

Duplicate (EI41506-DUP1)

Source: 4I03009-01

Prepared & Analyzed: 09/15/04

Calcium	281	1.00	mg/L		280			0.357	20	
Magnesium	110	0.100	"		111			0.905	20	
Potassium	8.18	0.500	"		8.31			1.58	20	
Sodium	359	1.00	"		365			1.66	20	

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

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Project Number: Zachary Hinton/729
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
09/19/04 11:52

Total Metals by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EI41506 - General Preparation (Metals)

Duplicate (EI41506-DUP2)		Source: 4I10015-01		Prepared & Analyzed: 09/15/04						
Calcium	20.2	0.100	mg/L		20.2			0.00	20	
Magnesium	28.4	0.0100	"		28.6			0.702	20	
Potassium	16.4	0.500	"		16.6			1.21	20	
Sodium	103	0.100	"		103			0.00	20	

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Zachary Hinton / 729
Project Number: Zachary Hinton/729
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
09/19/04 11:52

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:

Raland K Tuttle

Date:

9-18-04

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Biezugbe, Lab Tech.

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If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Archadis

Date/Time: 9-3-04

Order #: 4103013-01

Initials: MS

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	3.5 C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Custody Seals intact on shipping container/cooler?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Not present
Custody Seals intact on sample bottles?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Not present
Chain of custody present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Container labels legible and intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Samples properly preserved?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable

Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____

Regarding:

Corrective Action Taken:

GERAGHTY & MILLER

Project Number/Name Zachary Hinton / 729
Project Location BD / Rice Operating
Laboratory Environmental Lab of Texas
Project Manager Kristin Ferris fpe
Sampler(s)/Affiliation Sandra Griffin / ARNDIS

Sample ID/Location	Date/Time Sampled	Matrix	TIME Left	TIME Right	Remarks	Total
MW-1	9/7/04	L	1730	2	4103013-01	3

Sample Matrix: S = Solid; L = Liquid; A = Air

Relinquished by: _____
Organization: _____

Received by: Dr. J. K. ... Organization: ...

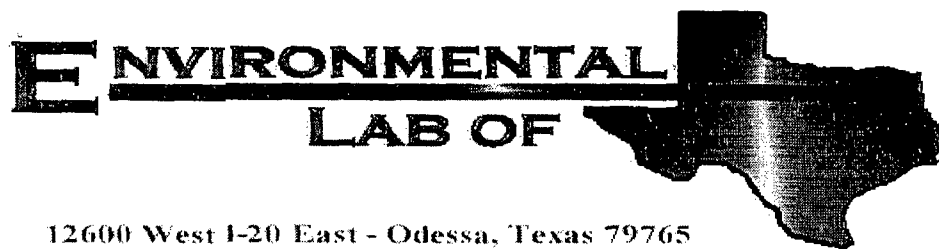
Relinquished by: _____
Organization: _____

Received by: _____
Organization: _____

Special Instructions/Remarks:

* Email analysis to Kristin enviro@kaco.net

Delivery Method: ☐ In Person ☒ In Person☐ Common Carrier☐ Lab Courier☐ Other



Analytical Report

Prepared for:

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

Project: O-12 Zach Hinton
Project Number: None Given
Location: B-D

Lab Order Number: 4E29007

Report Date: 06/04/04

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: O-12 Zach Hinton
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/04/04 17:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	4E29007-01	Water	05/27/04 15:00	05/28/04 16:30

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: O-12 Zach Hinton
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

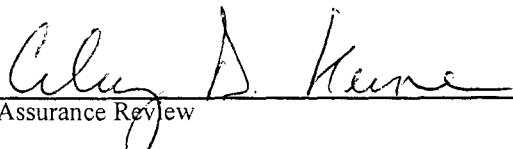
Reported:
06/04/04 17:04

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (4E29007-01) Water									
Benzene	ND	0.00100	mg/L	1	EF40313	06/02/04	06/02/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		118 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %	80-120		"	"	"	"	

Environmental Lab of Texas

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Quality Assurance Review

Page 2 of 10

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: O-12 Zach Hinton
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/04/04 17:04

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (4E29007-01) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EF40408	05/29/04	05/29/04	EPA 310.2M	
Bicarbonate Alkalinity	201	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	372	5.00	"	"	EF40407	06/03/04	06/03/04	EPA 325.3M	
Total Dissolved Solids	1190	5.00	"	"	EF40310	06/01/04	06/02/04	EPA 160.1	
Sulfate	252	2.50	"	5	EF40418	06/04/04	06/04/04	EPA 375.4	

Environmental Lab of Texas

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Quality Assurance Review

Page 3 of 10

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: O-12 Zach Hinton
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471


Reported:
06/04/04 17:04

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (4E29007-01) Water									
Calcium	108	1.00	mg/L	100	EF40420	06/02/04	06/04/04	EPA 6010B	
Magnesium	67.8	0.0100	"	10	"	"	06/04/04	"	
Potassium	17.8	0.500	"	"	"	"	"	"	
Sodium	310	1.00	"	100	"	"	06/04/04	"	

Environmental Lab of Texas

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Quality Assurance Review

Page 4 of 10

Rice Operating Co.
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Hobbs NM, 88240

Project: O-12 Zach Hinton
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/04/04 17:04

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EF40313 - EPA 5030C (GC)

Blank (EF40313-BLK1)

Prepared & Analyzed: 06/02/04

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	22.6		ug/l	20.0		113	80-120			
Surrogate: 4-Bromofluorobenzene	18.7		"	20.0		93.5	80-120			

LCS (EF40313-BS1)

Prepared & Analyzed: 06/02/04

Benzene	87.9		ug/l	100		87.9	80-120			
Toluene	94.6		"	100		94.6	80-120			
Ethylbenzene	91.2		"	100		91.2	80-120			
Xylene (p/m)	196		"	200		98.0	80-120			
Xylene (o)	94.9		"	100		94.9	80-120			
Surrogate: a,a,a-Trifluorotoluene	21.2		"	20.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	22.0		"	20.0		110	80-120			

Calibration Check (EF40313-CCV1)

Prepared & Analyzed: 06/02/04

Benzene	83.3		ug/l	100		83.3	80-120			
Toluene	92.4		"	100		92.4	80-120			
Ethylbenzene	92.3		"	100		92.3	80-120			
Xylene (p/m)	196		"	200		98.0	80-120			
Xylene (o)	92.0		"	100		92.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	17.6		"	20.0		88.0	80-120			
Surrogate: 4-Bromofluorobenzene	20.7		"	20.0		104	80-120			

Matrix Spike (EF40313-MS1)

Source: 4E29001-01

Prepared & Analyzed: 06/02/04

Benzene	92.3		ug/l	100	ND	92.3	80-120			
Toluene	103		"	100	ND	103	80-120			
Ethylbenzene	99.5		"	100	ND	99.5	80-120			
Xylene (p/m)	214		"	200	ND	107	80-120			
Xylene (o)	102		"	100	ND	102	80-120			
Surrogate: a,a,a-Trifluorotoluene	22.2		"	20.0		111	80-120			
Surrogate: 4-Bromofluorobenzene	23.0		"	20.0		115	80-120			

Environmental Lab of Texas

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Quality Assurance Review

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: O-12 Zach Hinton
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/04/04 17:04

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EF40313 - EPA 5030C (GC)

Matrix Spike Dup (EF40313-MSD1)


Source: 4E29001-01

Prepared & Analyzed: 06/02/04

Benzene	83.2		ug/l	100	ND	83.2	80-120	10.4	20	
Toluene	92.2		"	100	ND	92.2	80-120	11.1	20	
Ethylbenzene	89.4		"	100	ND	89.4	80-120	10.7	20	
Xylene (p/m)	192		"	200	ND	96.0	80-120	10.8	20	
Xylene (o)	92.6		"	100	ND	92.6	80-120	9.66	20	
Surrogate: a,a,a-Trifluorotoluene	20.5		"	20.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	22.8		"	20.0		114	80-120			

Environmental Lab of Texas

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Quality Assurance Review

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: O-12 Zach Hinton
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/04/04 17:04

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EF40310 - Filtration Preparation

Blank (EF40310-BLK1)

Prepared: 06/01/04 Analyzed: 06/02/04

Total Dissolved Solids	ND	5.00	mg/L
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Duplicate (EF40310-DUP1)

Source: 4E29001-01

Prepared: 06/01/04 Analyzed: 06/02/04

Total Dissolved Solids	831	5.00	mg/L	830	0.120	20
------------------------	-----	------	------	-----	-------	----

Batch EF40407 - General Preparation (WetChem)

Blank (EF40407-BLK1)

Prepared & Analyzed: 06/03/04

Chloride	ND	5.00	mg/L
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Matrix Spike (EF40407-MS1)

Source: 4E29001-01

Prepared & Analyzed: 06/03/04

Chloride	709	5.00	mg/L	500	213	99.2	80-120
----------	-----	------	------	-----	-----	------	--------

Matrix Spike Dup (EF40407-MSD1)

Source: 4E29001-01

Prepared & Analyzed: 06/03/04

Chloride	700	5.00	mg/L	500	213	97.4	80-120	1.28	20
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Reference (EF40407-SRM1)

Prepared & Analyzed: 06/03/04

Chloride	4960		mg/L	5000	99.2	80-120
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Batch EF40408 - General Preparation (WetChem)

Blank (EF40408-BLK1)

Prepared & Analyzed: 05/29/04

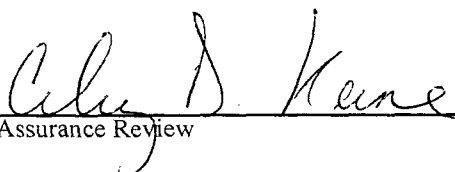
Carbonate Alkalinity	ND	0.100	mg/L
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Bicarbonate Alkalinity	ND	2.00	"
------------------------	----	------	---

Hydroxide Alkalinity	ND	0.100	"
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Environmental Lab of Texas

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Quality Assurance Review

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: O-12 Zach Hinton
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/04/04 17:04

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EF40408 - General Preparation (WetChem)

Duplicate (EF40408-DUP1)		Source: 4E29001-01		Prepared & Analyzed: 05/29/04						
Carbonate Alkalinity	0.00	0.100	mg/L		0.00				20	
Bicarbonate Alkalinity	214	2.00	"		214			0.00	20	
Hydroxide Alkalinity	0.00	0.100	"		0.00				20	

Reference (EF40408-SRM1)		Prepared & Analyzed: 05/29/04								
Carbonate Alkalinity	0.0496		mg/L	0.0500		99.2	80-120			

Batch EF40418 - General Preparation (WetChem)

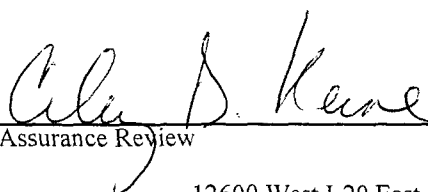
Blank (EF40418-BLK1)		Prepared & Analyzed: 06/04/04								
Sulfate	ND	0.500	mg/L							

Calibration Check (EF40418-CCV1)		Prepared & Analyzed: 06/04/04								
Sulfate	49.2		mg/L	50.0		98.4	80-120			

Duplicate (EF40418-DUP1)		Source: 4E29001-01		Prepared & Analyzed: 06/04/04						
Sulfate	140	1.00	mg/L		138			1.44	20	

Environmental Lab of Texas

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Quality Assurance Review

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: O-12 Zach Hinton
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/04/04 17:04

Total Metals by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EF40420 - General Preparation (Metals)

Blank (EF40420-BLK1)

Prepared: 06/02/04 Analyzed: 06/04/04

Calcium	ND	0.0100	mg/L
Magnesium	ND	0.00100	"
Potassium	ND	0.0500	"
Sodium	ND	0.0100	"

Calibration Check (EF40420-CCV1)

Prepared: 06/02/04 Analyzed: 06/04/04

Calcium	2.00		mg/L	2.00	100	85-115
Magnesium	2.27		"	2.00	114	85-115
Potassium	1.82		"	2.00	91.0	85-115
Sodium	1.86		"	2.00	93.0	85-115

Duplicate (EF40420-DUP1)


Source: 4E29006-01

Prepared: 06/02/04 Analyzed: 06/04/04

Calcium	69.2	0.0100	mg/L	58.9	16.1	20
Magnesium	47.0	0.00100	"	43.0	8.89	20
Potassium	7.56	0.0500	"	7.95	5.03	20
Sodium	126	0.0100	"	145	14.0	20

Environmental Lab of Texas

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Quality Assurance Review

Page 9 of 10

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: O-12 Zach Hinton
Project Number: None Given
Project Manager: Kristin Farris

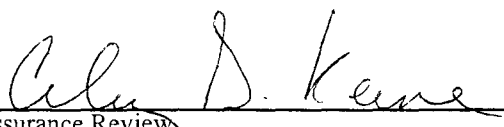
Fax: (505) 397-1471
Reported:
06/04/04 17:04

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Environmental Lab of Texas

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Quality Assurance Review

12600 West 1-20 East
Odessa, Texas 79763

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:

123 W. Taylor

City/State/Zip:

4-10665, NM 88240

Telephone No. ()

(505) 393-9174

Fax No:

Fax No: (505) 397-1471

Sampler Signature:

Quill Pen

Quill Pen

[illegible]

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Rice Operating Co.

Date/Time: 05-29-04 @ 1030

Order #: 4E29007

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	6.5 C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Custody Seals intact on shipping container/cooler?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not present
Custody Seals intact on sample bottles?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not present
Chain of custody present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Chain of Custody signed when relinquished and received?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	missing 1st rec. signature
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Container labels legible and intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Samples properly preserved?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	should be 4°C ± 2°C
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable

Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____
Regarding: _____

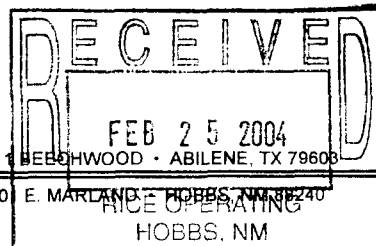
Corrective Action Taken:



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: KRISTIN FARRIS
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 02/19/04
Reporting Date: 02/23/04
Project Number: NOT GIVEN
Project Name: MONITOR WELLS
Project Location: ZACH HINTON 0-12

Sampling Date: 02/19/04
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (μ S/cm)	T-Alkalinity (mgCaCO ₃ /L)
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ANALYSIS DATE:	02/20/04	02/20/04	02/20/04	02/20/04	02/20/04	02/20/04	02/20/04
H8476-1 ZACH HINTON 0-12 MW	171	84	63	8.08	2059	216	
Quality Control	NR	59	42	5.17	1322	NR	
True Value QC	NR	50	50	5.00	1413	NR	
% Recovery	NR	118	85	103	93.6	NR	
Relative Percent Difference	NR	1.7	2.3	1.0	0.7	NR	

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
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ANALYSIS DATE:	02/20/04	02/20/04	02/20/04	02/20/04	02/20/04	02/21/04
H8476-1 ZACH HINTON 0-12 MW	380	97	0	263	7.51	1297
Quality Control	1010	53.65	NR	1007	7.04	NR
True Value QC	1000	50.00	NR	1000	7.00	NR
% Recovery	101	107	NR	101	101	NR
Relative Percent Difference	2.0	1.5	NR	1.1	0.3	1.4

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

2/23/04
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. **H8476** Cardinal shall be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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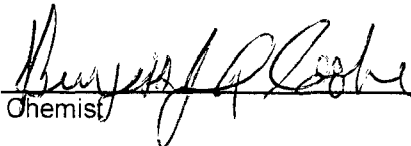
ANALYTICAL RESULTS FOR
RICE OPERATING
ATTN: KRISTIN FARRIS
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 02/19/04
Reporting Date: 02/23/04
Project Number: NOT GIVEN
Project Name: MONITOR WELLS
Project Location: ZACH HINTON 0-12

Sampling Date: 02/19/04
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		02/19/04	02/19/04	02/19/04	02/19/04
H8476-1	ZACH HINTON 0-12	<0.002	<0.002	<0.002	<0.006
	MONITOR WELL				
Quality Control		0.093	0.097	0.099	0.299
True Value QC		0.100	0.100	0.100	0.300
% Recovery		93.2	97.4	99.3	99.5
Relative Percent Difference		0.9	3.6	2.1	2.0

METHOD: EPA SW-846 8260


Chemist

2/23/04
Date

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

Page _____ of _____

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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