1R – 428 - 57

ANNUAL GW MONITOR REPORT

DATE: 2007

R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲

2008 FEB 7 PM 2 41

(R428-57 Annual GW Mor. Report ELVED 2007

January 24, 2008

Wayne Price Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, NM 87505

RE: 2007 Annual Ground Water Monitoring Report B-32 Boot, Sec 32, T18S, R38E, Unit "B" NMOCD Case #: 1R428-57

Dear Mr. Wayne Price:

R.T. Hicks Consultants, Ltd is pleased to submit the 2007 Annual Ground Water Monitoring Report for the B-32 Boot site located in the Hobbs Salt Water Disposal System (SWD). This report consists of the following sections:

- 1. A table summarizing all laboratory results, depth to ground water and other pertinent data associated with ground water sampling at the site, including this past year.
- 2. Graphs showing chemical concentration over time for chloride, TDS, and sulfate.
- 3. Laboratory data sheets associated with the routine sampling for 2007.
- 4. Site Survey

A Correction Action Plan was submitted to NMOCD on January 22, 2007. NMOCD approved the CAP on July 18, 2007. In August of 2007, the site was reseeded to create the proposed infiltration barrier through surface restoration and vegetation. We plan to monitor ground water quarterly in 2008.

Thank you for your consideration of this annual summary information. The attached CD contains an electronic copy of this report. If you have any questions, please contact us at 505-266-5004, or Kristin Farris Pope at ROC, 505-393-9174.

Sincerely, R.T. Hicks Consultants, Ltd.

Randall T. Hicks Principal

Copy: Hobbs NMOCD office; Rice Operating Company

								-			
	Comments					Napthalene 0.00133	Napthalene 0.00127 Slight odor clear	Silt to clear Slight odor Resampled data due to LAB error	slight odor/ silt to clear	Silt to Clear with a Sheen Slight Odor	Silt to clear Slight odor
	TDS (mg/L) Benzene (mg/L) Toluene (mg/L) EthylBenzene (mg/L) Total Xylenes (mg/L) Comments			J[0.00703]	j[0.000784]	0.00188	0.00188	0.00137	.00626	0.00416	<0.006
	EthylBenzene (mg/L)			J[0.000371]	0.00212	0.00222	0.00385	0.00411	.00376	0.00282	0.005
ıe	Toluene (mg/L)			<0.001	<0.001	<0.001	<0.001	XX	XXX	<0.001	<0.002
Table 1: chemistry over time	Benzene (mg/L)			<0.001	0.00645	0.00366	0.00554	0.00478	.00656	0.00341	0.010
l: chemisi	TDS (mg/L)			742	720	XXX	638	704	706	778	892
Table]	Sulfate (mg/L)			88.3	95.2	XXX	91.2	94.3	89.6	104	121
	Chloride (mg/L)			143	140	XXX	148	144	165	196	332
	DTW (ft)			57.03	57.06	56.88	56.80	57.15	57.36	57.51	57.62
	Date	i		5/17/2006	9/19/2006	10/5/2006	10/31/2006	3/19/2007	4/25/2007	7/30/2007	12/19/2007
B-32 Boot	Well Name	MW #1	1# MM	MW #1	MW #1	MW #1	MW #1	MW #1	MW #1	MW #1	MW #1

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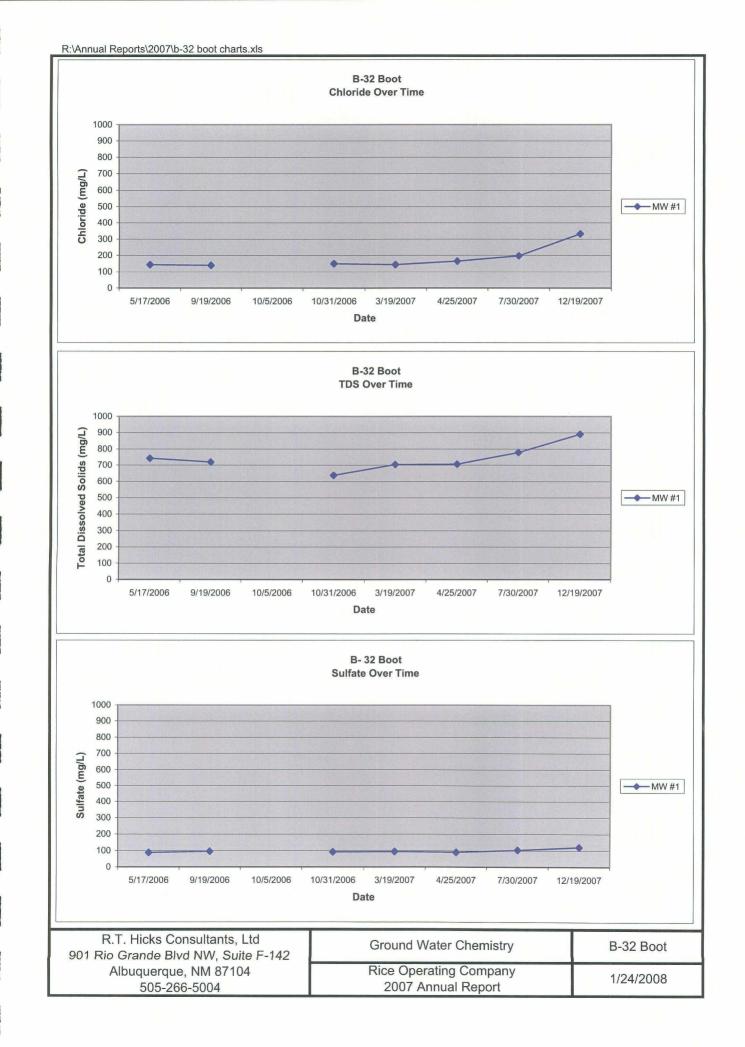
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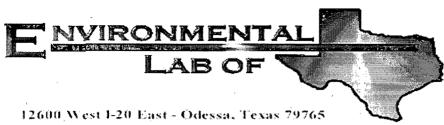
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Thursday, January 24, 2008

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Analytical Report

Prepared for:

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

Project: Hobbs B-32 Boot Project Number: None Given Location: T18S-R38E-Sec. 32B Lea Co., NM

Lab Order Number: 7B22014

Report Date: 03/08/07

Project:HobbsB-32BootProjectNumber:NoneGivenProjectManager:KristinFarris-Pope

Fax: (505) 397-1471

ANALYTICAL REPORT FOR SAMPLES

Sample 1D	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	7B22014-01	Water	02/22/07 12:45	02-22-2007 15:12

Page 1 of 11

Project: Hobbs B-32 Boot Project Number: None Given Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte Monitor Well #1 (7B22014-01) Water	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	294	2.00	mg/L	1	EB72404	02/23/07	02/23/07	EPA 310.1M	
Chloride _	395	10.0	"	20	EB72801	02/28/07	02/28/07	EPA 300.0	
Total Dissolved Solids	1020	10.0	"	1	EB72702	02/23/07	02/24/07	EPA 160.1	
Sulfate	86.6	10.0	"	20	EB72801	02/28/07	02/28/07	EPA 300.0	

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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Project: Hobbs B-32 Boot Project Number: None Given Fax: (505) 397-1471

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Project Manager: Kristin Farris-Pope

Analyte Monitor Well #1 (7B22014-01) Water	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	109	4.05	mg/L	50	EB72310	02/23/07	02/23/07	EPA 6010B	
Magnesium	23.1	0.360	"	10	۳,		, n		
Potassium	3.55	0.600	٠	"	н		"		
Sodium	206	2.15	n	50	н,			"	

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Project: Hobbs B-32 Boot Project Number: None Given Project Manager: Kristin Farris-Pope

Volatile Organic Compounds by EPA Method 8260B

Environmental Lab of Texas

									· · ·
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Monitor Well #1 (7B22014-01) Water					,				
Benzene	0,00863	0.00100	mg/L	1	EB72704	02/27/07	02/28/07	EPA 8260B	
Toluene	ND	0.00100	"	۳	"	n	"	e1	
Ethylbenzene	0.0143	0.00100	"	"			n	"	
Xylene (p/m)	0.00328	0.00100	"	"			"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	*	
Naphthalene	0.00321	0.00100	"	"	ь	•	н	н	
Surrogate: Dibromofluoromethane		109 %	68-12	9	n	"	"	"	·
Surrogate: 1,2-Dichloroethane-d4		88.6 %	72-13	2	"	" .	"	"	
Surrogate: Toluene-d8		94.4 %	74-11	8	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.4 %	65-14	0	"	"	"	"	÷

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Rice Operating Co.	Project: Hobbs B-32 Boot	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager Kristin Farris-Pope	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

		nvironm								
A set of	D li	Reporting	.	Spike	Source	4/DE0	%REC	0.00	RPD	N T .
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EB72404 - General Prepara	tion (WetChem)									-
Blank (EB72404-BLK1)				Prepared &	& Analyze	d: 02/23/0	7			
Total Alkalinity	ND	2.00	mg/L							
Carbonate Alkalinity	ND	0.100	н							
Bicarbonate Alkalinity	ND	2.00	"							
Hydroxide Alkalinity	ND	0.100	́ н							
LCS (EB72404-BS1)				Prepared &	& Analyze	d: 02/23/01	7			
Bicarbonate Alkalinity	188	2.00	mg/L	200		94.0	85-115			
Duplicate (EB72404-DUP1)	Source	: 7B22011	-01	Prepared &	& Analyze	d: 02/23/0	7			
Total Alkalinity	184	2.00	mg/L		180			2.20	20	
Reference (EB72404-SRM1)				Prepared &	& Analyze	d: 02/23/01	7			
Total Alkalinity	246		mg/L	250		98.4	90-110			
Batch EB72702 - General Prepara	tion (WetChem)								•	
Blank (EB72702-BLK1)				Prenared	02/23/07	Analyzed	02/24/07			
	ND	10.0	mg/L	Prepared:	02/23/07	Analyzed:	02/24/07			
Total Dissolved Solids			÷							
Total Dissolved Solids Duplicate (EB72702-DUP1)		10.0 : 7B22009 10.0	÷	Prepared: Prepared:		Analyzed: Analyzed:		2.22	20	
Blank (EB72702-BLK1) Total Dissolved Solids Duplicate (EB72702-DUP1) Total Dissolved Solids Duplicate (EB72702-D1/P2)	Source 364	7B22009 10.0	-01 mg/L	Prepared	02/23/07 356	Analyzed:	02/24/07	2.22	20	
Total Dissolved Solids Duplicate (EB72702-DUP1) Total Dissolved Solids Duplicate (EB72702-DUP2)	Source 364	: 7B22009	-01 mg/L		02/23/07 356		02/24/07	2.22	20	
Total Dissolved Solids Duplicate (EB72702-DUP1) Total Dissolved Solids Duplicate (EB72702-DUP2) Total Dissolved Solids	Source 364 Source 518	: 7B22009 10.0 : 7B22012	-01 mg/L -01	Prepared	02/23/07 356 02/23/07	Analyzed:	02/24/07			
Total Dissolved Solids Duplicate (EB72702-DUP1) Total Dissolved Solids Duplicate (EB72702-DUP2) Total Dissolved Solids Batch EB72801 - General Preparat	Source 364 Source 518	: 7B22009 10.0 : 7B22012	-01 mg/L -01	Prepared: Prepared:	02/23/07 356 02/23/07 494	Analyzed: Analyzed:	02/24/07			
Total Dissolved Solids Duplicate (EB72702-DUP1)	Source 364 Source 518	: 7B22009 10.0 : 7B22012	-01 mg/L -01	Prepared: Prepared:	02/23/07 356 02/23/07 494	Analyzed:	02/24/07			

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Rice Operating Co. 122 W. Taylor Hobbs NM, 88240		Project Ni	umber: N	obbs B-32 one Given ristin Farris						Fax: (505	5) 397-147
Gene	ral Chemistry Parai Ei		•	PA / Sta Lab of			thods -	Qual	ity Co	ntrol	
Analyte	Result	Reporting Limit	Units	Spike Level		Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB72801 - General Prep	paration (WetChem)										
LCS (EB72801-BS1)	· · · · ·			Prepared	&	Analyzed:	02/28/07				
Sulfate	10.6	0.500	mg/L	10.0			106	80-120		· · ·	
Chloride	10.2	0.500	"	10.0			102	80-120			
Calibration Check (EB72801-CCV1)			Prepared	&	Analyzed:	02/28/07				
Chloride	10.4		mg/L	10.0			104	80-120			
Sulfate	. 11.1			10.0			111	80-120			
Duplicate (EB72801-DUP1)	Source:	7B22009	-01	Prepared	&	Analyzed:	02/28/07				
Sulfate	64.9	5.00	mg/L			64.3			0.929	20	
Chloride	21.6	5.00	"			22.2		~	2.74	20	
Duplicate (EB72801-DUP2)	Source:	7B22012	-01	Prepared	&	Analyzed:	02/28/07				
Chloride	117	5.00	mg/L			119			1.69	20	
Sulfate	92.3	5.00	"			93.2			0.970	20	
Matrix Spike (EB72801-MS1)	Source:	7B22009	-01	Prepared	&	Analyzed:	02/28/07				
Chloride _	134	5.00	mg/L	100		22.2	112	80-120			
Sulfate	172	5.00	"	100		64.3	108	80-120			
Matrix Spike (EB72801-MS2)	Source:	7B22012-	-01	Prepared	&	Analyzed:	02/28/07			,	
Chloride	231	5.00	mg/L	100		119	112	80-120			
Sulfate	204	5.00	"	100		93.2	111	80-120			

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Project: Hobbs B-32 Boot Project Number: None Given Project Manager Kristin Farris-Pope

Fax: (505) 397-1471

Total Metals by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

		Reporting		Spike		Source		%REC		RPD	
Analyte	Result	Limit	Units	Level		Result	%REC	Limits	RPD	Limit	Notes
Batch EB72310 - 6010B/No Digestion											
Blank (EB72310-BLK1)				Prepared	&	Analyzed	02/23/07				
Calcium	ND	0.0810	mg/L								
Magnesium	ND	0.0360									
Potassium	ND	0.0600									
Sodium	ND	0.0430	"								
Calibration Check (EB72310-CCV1)				Prepared	&	Analyzed:	02/23/07				
Calcium	1.93	•	mg/L	2.00			96.5	85-115			
Magnesium	1.88		*	2.00			94.0	85-115			
Potassium	1.82		"	2.00			91.0	85-115			
Sodium	1.75		"	2.00			87.5	85-115			
Duplicate (EB72310-DUP1)	Source	e: 7 B22 004	-01	Prepared	&	Analyzed:	02/23/07				
Calcium	84.4	4.05	mg/L			84.2			0.237	20	
Magnesium	142	1.80				147			3.46	20	
Potassium	22.3	0.600				22.8			2.22	20	
Sodium	200	2.15	· "			206			2.96	20	
Batch EC70707 - 6010B/No Digestion											
Blank (EC70707-BLK1)				Prepared	&	Analyzed:	03/07/07				
Calcium	ND	0.0810	mg/L								20 B - 1

Calcium	ND	0.0810	mg/L		,		
Magnesium	ND	0.0360					
Potassium	ND	0.0600	"				
Sodium .	ND	0.0430					
LCS (EC70707-BS1)				Prepared & An	alyzed: 03/07/0	17	
Calcium	1.00		mg/L	1.00	100	85-115	
Magnesium	1.04		H	1.00	104	85-115	
Potassium	9.88		*1	10.0	98.8	85-115	
Sodium	9.92		н	11.0	90.2	85-115	

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Fax: (505) 397-1471

Total Metals by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

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

Batch EC70707 - 6010B/No Digestion

LCS Dup (EC70707-BSD1)			Prepared d	& Analyze	d: 03/07/0	07			
Calcium	1.01	mg/L	1.00		101	85-115	0.995	20	
Magnesium	1.05		1.00		105	85-115	0.957	20	
Potassium	9.97		10.0		99.7	85-115	0,907	20	
Sodium	10.0		11.0		90.9	85-115	0.803	20	
Matrix Spike (EC70707-MS1)	Source: 7	C01014-01RE1	Prepared a	& Analyze	d: 03/07/0	07	× ·		
Calcium	118	mg/L	2.00	116	100	75-125			
Magnesium	50.7	"	2.00	47.1	180	75-125			MI
Potassium	42.8		20.0	14.3	142	75-125			MI
Sodium	317	"	22.0	235	373	75-125			MI
Matrix Spike Dup (EC70707-MSD1)	Source: 7	C01014-01RE1	Prepared a	& Analyze	d: 03/07/0	07			
Calcium	123	mg/L	2.00	116	350	75-125	4.15	20	М
Magnesium	51.9	"	2.00	47.1	240	75-125	2.34	20	. M1
Potassium	42.9	"	20.0	14.3	143	75-125	0.233	20	МІ
Sodium	322		22.0	235	395	75-125	1,56.	20	МІ

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Project: Hobbs B-32 Boot Project Number: None Given Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Volatile Organic Compounds by EPA Method 8260B - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EB72704 - EPA 5030C (GCMS)										
Blank (EB72704-BLK1)				Prepared a	& Analyzed	: 02/27/07				
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	*							
Ethylbenzene	ND	0.00100								
Xylenc (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	н							
Naphthalene	ND	0.00100	n					-		
Surrogate: Dibromofluoromethane	46.4		ug/l	50.0		92.8	68-129			
Surrogate: 1,2-Dichloroethane-d4	36.6		"	50.0		73.2	72-132			
Surrogate: Toluene-d8	44.6		"	50.0		89.2	74-118			
Surrogate: 4-Bromofluorohenzene	48.3		"	50,0		96.6	65-140		*	
LCS (EB72704-BS1)				Prepared &	& Analyzed	: 02/27/07				
Benzene	0.0286	0.00100	mg/L	0.0250		114	70-130			
Toluene	0.0260	0.00100	н	0.0250		104	70-130			
Ethylbenzenc	0.0250	0.00100		0.0250		100	70-130			
Xylene (p/m)	0.0495	0.00100	"	0.0500		99.0	70-130			
Xylene (o)	0.0259	0.00100	n	0.0250		104	70-130			
Naphthalene	0.0204	0.00100	۳	0.0250		81.6	70-130			
Surrogate: Dibromofluoromethane	50.1		ug/l	50.0		100	68-129			
Surrogate: 1,2-Dichloroethane-d4	43.1		"	50.0		86.2	72-132			
Surrogate: Toluene-d8	47.6		"	50.0		95.2	74-118			
Surrogate: 4-Bromofluorobenzene	51.9		"	50.0		104	65-140			

· · · · · · · · · · · · · · · · · · ·				J		
Toluene	46.4	ug/l	50.0	92.8	70-130	
Ethylbenzene	45.3	*	50.0	90,6	70-130	
Surrogate: Dibromofluoromethane	50.6	"	50.0	101	68-129	
Surrogate: 1,2-Dichloroethane-d4	38.5	"	50.0	77.0	72-132	
Surrogate: Toluene-d8	43.7	"	50.0	87.4	74-118	
Surrogate: 4-Bromofluorobenzene	48.9	"	50.0	97.8	65-140	

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Project: Hobbs B-32 Boot Project Number: None Given

Fax: (505) 397-1471

Project Manager: Kristin Farris-Pope

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Environmental Lab of Texas

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

Batch EB72704 - EPA 5030C (GCMS)

Matrix Spike (EB72704-MS1)	Sourc	e: 7B22012	-01	Prepared:	02/27/07	Analyzed:	02/28/07			
Benzene	0.0215	0.00100	mg/L	0.0250	ND	86.0	70-130			
Toluene	0.0233	0.00100	n	0.0250	ND	93.2	70-130			
Ethylbenzene	0.0260	0.00100	"	0.0250	ND	104	70-130			
Xylene (p/m)	0.0502	0.00100	"	0.0500	ND	100	70-130			
Xylene (o)	0.0250	0.00100	"	0.0250	ND	100	70-130			
Naphthalene	0.0187	0.00100		0.0250	ND	74.8	70-130			
Surrogate: Dibromofluoromethane	51.1		ug/l	50.0		102	68-129			
Surrogate: 1,2-Dichloroethane-d4	41.8		"	50.0		83.6	72-132			
Surrogate: Toluene-d8	42.1		"	50.0		84.2	74-118			
Surrogate: 4-Bromofluorobenzene	46.9		"	50.0		93.8	65-140			
Matrix Spike Dup (EB72704-MSD1)	Sourc	e: 7B22012	-01	Prepared:	02/27/07	Analyzed:	02/28/07			
Benzene	0.0180	0.00100	mg/L	0.0250	ND	72.0	70-130	17.7	20	
Toluene	0.0182	0.00100		0.0250	ND	72.8	70-130	24.6	20	F
Ethylbenzene	0.0245	0.00100	*	0.0250	ND	98.0	70-130	5.94	20	
Xylene (p/m)	0.0484	0.00100	*	0.0500	ND	96.8	70-130	3.65	20	
Xylene (o)	0.0263	0.00100	w	0.0250	ND	105	70-130	5.07	20	
Naphthalene	0.0231	0.00100	"	0.0250	ND	92.4	70-130	21.1	20	F
Surrogate: Dibromofluoromethane	53.5		ug/l	50.0		107	68-129			
Surrogate: 1,2-Dichloroethane-d4	40.3		"	50.0		80.6	72-132			
Surrogate: Toluene-d8	35.7		н	50.0		71.4	74-118			S-0-
Surrogaie. Tomene-us	20217									

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Project: Hobbs B-32 Boot Project Number: None Given Project Manager: Kristin Farris-Pope

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

R The RPD exceeded the method control limit. The individual analyte QA/QC recoveries, however, were within acceptance limits.

M1 The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

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:

lan 1949 -

3/8/2007

Brent Barron, Laboratory Director/Corp. Technical Director Celey D. Keene, Org. Tech Director Raland K. Tuttle, Laboratory Consultant James Mathis, QA/QC Officer Jeanne Mc Murrey, Inorg. Tech Director

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Variance/ Corrective Action Report- Sample Log-In

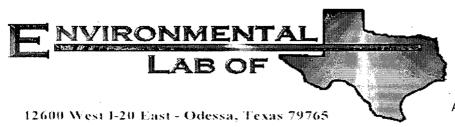
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Initials:	QK

Sample Receipt Checklist

			· · · · · · · · · · · · · · · · · · ·		Initials
#1	Temperature of container/ cooler?	Yes	No	1.5 °C	
#2	Shipping container in good condition?	Ces	No		
#3	Custody Seals intact on shipping container/ cooler?	as .	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	¥05	No	Not Present	
#5	Chain of Custody present?	¥:	No		
#6	Sample instructions complete of Chain of Custody?	à ∕ € s	No		
#7	Chain of Custody signed when relinquished/ received?	Xes	No		
#8	Chain of Custody agrees with sample label(s)?	Xes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Jes	No		
#11	Containers supplied by ELOT?	Hes	No		
#12	Samples in proper container/ bottle?	(Tes	No	See Below	
#13		(Tes	No	See Below	
#14	Sample bottles intact?	Fes	No		
#15	Preservations documented on Chain of Custody?	Xes	No		
#16	Containers documented on Chain of Custody?	des	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18		Mes)	No	See Below	
#19		Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	YES	No	Not Applicable	

Variance Documentation

Cooling process had begun shortly after sampling event



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Analytical Report

Prepared for:

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

Project: Hobbs B-32 Boot Project Number: None Given Location: T18S R38E Sec32 B ~ Lea County New Mexico

Lab Order Number: 7D26008

Report Date: 05/07/07

Project:HobbsB-32BootProjectNumber:NoneGivenProjectManager:KristinFarris-Pope

Fax: (505) 397-1471

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well # 1	7D26008-01	Water	04/25/07 12:10	04-26-2007 16:25

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Project: Hobbs B-32 Boot Project Number: None Given Project Manager: Kristin Farris-Pope

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 (7D26008-01) Water									
Total Alkalinity	248	2.00	mg/L	1	ED73002	04/30/07	04/30/07	EPA 310.1M	
Chloride	165	5.00	"	10	EE70307	05/03/07	05/03/07	EPA 300.0	
Total Dissolved Solids	706	10.0		1	EE70209	04/27/07	05/02/07	EPA 160.1	
Sulfate	89.6	5.00		10	EE70307	05/03/07	05/03/07	EPA 300.0	

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Project: Hobbs B-32 Boot Project Number: None Given Project Manager: Kristin Farris-Pope

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte Monitor Well # 1 (7D26008-01) Water	Result	Reporting Limit	Units	. Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	89.1	4.05	mg/L	50	ED72704	04/27/07	04/27/07	EPA 6010B	
Magnesium	13.3	0.360	"	10	"	۲		"	
Potassium	3.31	0.600	"	"	"	**	"	"	
Sodium	178	2.15	"	50	"	**		**	

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Project: Hobbs B-32 Boot Project Number: None Given Project Manager: Kristin Farris-Pope

Volatile Organic Compounds by EPA Method 8260B

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well # 1 (7D26008-01)	Water								
Benzene	0.00656	0.00100	mg/L	1	ED73009	04/30/07	04/30/07	EPA 8260B	ì
Toluene	ND	0.00100	"	n	•		"	"	
Ethylbenzene	0.00376	0.00100	"	"		"			
Xylene (p/m)	0.00626	0.00100		**	n	n	"		
Xylene (o)	ND	0.00100	"	*	*	"	"		
Naphthalene	J [0.000910]	0.00100			"	"		"	
Surrogate: Dibromofluoromethane		98.6 %	68-12	9	"	"	۳.	"	
Surrogate: 1,2-Dichloroethane-d4		80.4 %	72-13	2	"	"	"	"	
Surrogate: Toluene-d8		95.8 %	74-11	8	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.6 %	65-14	0	"	"	"	"	

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Rice Open	rating Co.
122 W. 7	Faylor
Hobbs NM	м, 88240

General Chemistry Parameters by EPA / Standard Methods - Quality Control

	E	nvironm	nental	Lab of T	Texas					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Note
Batch ED73002 - General Preparat	ion (WetChem)			<u></u>						
Blank (ED73002-BLK1)				Prepared &	è Analyze	d: 04/30/07	7			
Total Alkalinity	ND	2.00	mg/L							
LCS (ED73002-BS1)				Prepared 8	a Analyze	d: 04/30/02	7			
Total Alkalinity	0.00	2.00	mg/L				85-115			
Bicarbonate Alkalinity	180	2.00	"	200		90.0	85-115			
Duplicate (ED73002-DUP1)	Source	: 7D26006	-01	Prepared &	è Analyze	d: 04/30/07	7			
Fotal Alkalinity	214	2.00	mg/L		218			1.85	20	
Bicarbonate Alkalinity	0.00	2.00	"		0.00				20	
Reference (ED73002-SRM1)				Prepared &	& Analyze	d: 04/30/07	7			
Fotal Alkalinity	256		mg/L	250		102	90-110	-		
Batch EE70209 - General Preparat	ion (WetChem)									
Blank (EE70209-BLK1)				Prepared:	04/27/07	Analyzed:	05/02/07			
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EE70209-DUP1)	Source	: 7D26007	/-01	Prepared:	04/27/07	Analyzed:	05/02/07			
Total Dissolved Solids	1500	10.0	mg/Ľ		1470			2.02	20	
Duplicate (EE70209-DUP2)	Source	: 7D26009	-01	Prepared: (04/27/07	Analyzed:	05/02/07			
Total Dissolved Solids	712	10.0	mg/L		684			4.01	20	
Batch EE70307 - General Preparat	ion (WetChem)									
Blank (EE70307-BLK1)				Prepared &	a Analyze	d: 05/03/07	7			
Sulfate	ND	0.500	mg/L							

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Rice Operating Co.		Pr	oject: H	obbs B-32	Во	ot				Fax: (505) 397-1471
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Hobbs NM, 88240		-		ristin Farris	s-Po	pe					
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	E	nvironm	ental	Lab of	Te	exas					
		Reporting		Spike		Source		%REC		RPD	· .
Analyte	Result	Limit	Units	Level		Result	%REC	Limits	RPD	Limit	Notes
Batch EE70307 - General Prepa	ration (WetChem)										
LCS (EE70307-BS1)				Prepared	&	Analyzed:	05/03/07				
Chloride	9.62	0.500	mg/L	10.0			96.2	80-120			
Sulfate	10.0	0.500	۳	10.0			100	80-120			
Calibration Check (EE70307-CCV1)				Prepared	&:	Analyzed:	05/03/07				
Chloride	8.93		mg/L	10.0		•	89.3	80-120			- ·
Sulfate	11.6		**	10.0			116	80-120			
Duplicate (EE70307-DUP1)	Source	: 7D26006	-01	Prepared	&	Analyzed:	05/03/07				
Sulfate	342	12.5	mg/L			339			0.881	20	
Chloride	941	50.0				917			2.58	20	
Duplicate (EE70307-DUP2)	Source	: 7D26010	-01	Prepared	&	Analyzed:	05/03/07				
Chloride	93.1	5.00	mg/L			94.3			1.28	20	
Sulfate	74.1	5.00				75.5			1.87	20	
Matrix Spike (EE70307-MS1)	Source	: 7D26006	-01	Prepared	&	Analyzed:	05/03/07				
Sulfate	728	12.5	mg/L	250		339	156	80-120			N
Matrix Spike (EE70307-MS2)	Source	: 7D26010	-01	Prepared	&	Analyzed:	05/03/07				
Chloride	278	5.00	mg/L	100		94.3	184	80-120			N
Sulfate	204	5.00	"	100		75.5	128	80-120			N
Matrix Spike (EE70307-MS3)	Source	: 7D26006	-01	Prepared	&	Anałyzed:	05/03/07				
Chloride	1800	50.0	mg/L	1000		917	88.3	80-120			

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	Total Metals by EPA / Standard Methods - Quality Control Environmental Lab of Texas	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	
122 W. Taylor	Project Number: None Given	
Rice Operating Co.	Project: Hobbs B-32 Boot	Fax: (505) 397-1471

Spike %REC RPD Reporting Source Analyte Result Limit Units Level Result %REC Limits RPD Limit Notes Batch ED72704 - 6010B/No Digestion Blank (ED72704-BLK1) Prepared & Analyzed: 04/27/07 Calcium ND 0.0810 mg/L . Magnesium ND 0.0360 ., Potassium ND 0.0600 ** 0.0430 Sodium ND Calibration Check (ED72704-CCV1) Prepared & Analyzed: 04/27/07 Calcium 2.13 mg/L 2.00 106 85-115 10 Magnesium 2.15 2.00 108 85-115 = Potassium 2.14 2.00 107 85-115 ... Sodium 1.98 2.00 99.0 85-115

Duplicate (ED72704-DUP1)	Sourc	e: 7D23010	-01	Prepared & Analyzed: 04/27/07			
Całcium	44.1	0.810	mg/L	42.4	3.93	20	
Magnesium	43.0	0.360		42.4	1.41	20	
Potassium	22.7	0.600	"	22.1	2.68	20	
Sodium	41.9	0.430		40.8	2.66	20	

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED73009 - EPA 5030C (GCMS)									
Blank (ED73009-BLK1)				Prepared 8	k Analyzed	04/30/07	,			
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	"							
Naphthalene	ND	0.00100								
Surrogate: Dibromofluoromethane	50.3		ug/l	50.0		101	68-129			
Surrogate: 1,2-Dichloroethane-d4	42.3		"	50.0		84.6	72-132			
Surrogate: Toluene-d8	48.2		"	50.0		96. 4	74-118			
Surrogate: 4-Bromofluorobenzene	47.4		"	50.0		94.8	65-140			
LCS (ED73009-BS1)				Prepared 8	anałyzed:	04/30/07		~		
Benzene	0.0249	0.00100	mg/L	0.0250		99.6	70-130			
Tolucne	0.0265	0.00100		0.0250		106	70-130			
Ethylbenzene	0.0282	0.00100		0.0250	`	113	70-130			
Xylene (p/m)	0.0570	0.00100		0.0500		114	70-130			
Xylene (o)	0.0289	0.00100	"	0.0250		116	70-130			
Naphthalene	0.0190	0.00100		0.0250		76.0	70-130	-		
Surrogate: Dibromofluoromethane	48.3		ug/l	50.0		96.6	68-129			
Surrogate: 1,2-Dichloroethane-d4	43.7		"	50.0		87.4	72-132			
Surrogate: Toluene-d8	48.1		n	50.0		96.2	74-118			
Surrogate: 4-Bromofluorobenzene	44.1		"	50.0		88.2	65-140			
Calibration Check (ED73009-CCV1)				Prepared &	analyzed:	04/30/07				
Toluene	48.2		ug/l	50.0		96.4	70-130			
Ethylbenzene	49.8		"	50.0		99.6	70-130			
Surrogate: Dibromofluoromethane	47.3		"	50.0		94.6	68-129			
Surrogate: 1,2-Dichloroethane-d4	39.4		"	50.0		78.8	72-132			
Surrogate: Toluene-d8	46.5		"	50.0		93.0	74-118			
Surrogate: 4-Bromofluorobenzene	42.9		"	50.0		85.8	65-140			

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Project: Hobbs B-32 Boot Project Number: None Given Project Manager: Kristin Farris-Pope

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Environmental Lab of Texas

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

Batch ED73009 - EPA 5030C (GCMS)

Matrix Spike (ED73009-MS1)	Sour	rce: 7D26010	-01	Prepared	& Analyzed	04/30/07				
Benzene	0.0247	0.00100	mg/L	0.0250	ND	98.8	70-130	·····		
Toluene	0.0260	0.00100	"	0.0250	ND	104	70-130			
Ethylbenzene	0.0256	0.00100	n	0.0250	ND	102	70-130			
Xylene (p/m)	0.0514	0.00100	"	0.0500	ND	103	70-130			
Xylene (o)	0.0262	0.00100		0.0250	ND	105	70-130			
Naphthalene	0.0148	0.00100	"	0.0250	ND	59.2	70-130			M8
Surrogate: Dibromofluoromethane	48.6		ug/l	50.0		97.2	68-129			
Surrogate: 1,2-Dichloroethane-d4	42.8		"	50.0		85.6	72-132			
Surrogate: Toluene-d8	47.8		"	50.0		95.6	74-118			
Surrogate: 4-Bromofluorobenzene	43.0		"	50.0		86.0	65-140			
Matrix Spike Dup (ED73009-MSD1)	Sour	rce: 7D26010	-01	Prepared	& Analyzed:	04/30/07				
Benzene	0.0250	0.00100	mg/L	0.0250	ND	100	70-130	1.21	20	
Toluene	0.0264	0.00100	M	0.0250	ND	106	70-130	1.90	20	
Ethylbenzene	0.0262	0.00100		0.0250	ND	105	70-130	2.90	20	
Xylene (p/m)	0.0528	0.00100	"	0.0500	ND	106	70-130	2.87	20	
Xylene (0)	0.0270	0.00100	"	0.0250	ND	108	70-130	2.82	20	
Naphthalene	0.0169	0.00100	,,	0.0250	ND	67.6	70-130	13.2	20	M8
Surrogate: Dibromofluoromethane	50.1		ug/l	50.0		100	68-129			
Surrogate: 1,2-Dichloroethane-d4	42.9		"	50.0		85.8	72-132			
Surrogate: Toluene-d8	48.5		"	50.0		97.0	74-118			
on rogare. Tomore us										

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The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Project:HobbsB-32BootProjectNumber:NoneGivenProjectManager:KristinFarris-Pope

Notes and Definitions

M8 The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).

M1 The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

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:

By: _____

Date: 5/7/2007

Brent Barron, Laboratory Director/Corp. Technical Director Celey D. Keene, Org. Tech Director Raland K. Tuttle, Laboratory Consultant James Mathis, QA/QC Officer Jeanne Mc Murrey, Inorg. Tech Director

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	Kristin Farris Pope		Project Manager: Kristin Farris Pope kpop	kpope@riceswd.com	1.com		÷0	Слии Ог 12600 West I-20 East Odessa, Texas 79765	Vest I.	as 79	254 AS		- 			Phone: 432 Fax: 432 Project Name: Hobbs B-32 Boot	Teop Nat		Phone: Phone: Fax: Fax: B-32 B	CHAIN OF CUSTODY RECORD AND ANAL YSIS REQUEST Phone: 432-55 xas 79765 Project Name: Hobbs B-32 Boot	SIS REGUEST Phone: 432-563-1800 Fax: 432-563-1713 S B-32 Boot	8 £		
Company Name NACE OF	122 W. Taylor Street	et ha	λ. III	,										्त	roject	Project Loc: 1185 R38E	1185	3 R38	6 Sec32		ea)-	Count	Lea County New Mexico	Mexic
City/State/Zip: Hobbs, N	Hobbs, New Mexico 88240	0 88,	240										3			PO#;								
	3-9174				Fax No:		(505)) 39	397-147	171			č	Report Format:	Form	ų	X	(X_Standard	put		ЛККР	d de		NPDES
sampler Signature: Rozanne Joh	Rozanne Johnson (505)631-9310	1-9310			e-mail	,	070	rozanne(@vaiomet.com	6779	EC	61.0			1				ſ	Analyze	e For:				┡
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Monitor Well #1				4/25/2007	12:10		ς Χ		~				Ö	GW		×	×		×			\times		
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	1/24/01		Time Time	Received by	Unea	R	12	Dea				Date 1/241	0ate 24/07		Time	13338	Labels on container(s) Custody seals on cont Clustody seals on cool Samula Land Dialivous	seals seals	ainer on co on co	Labels on container(s) Custorly seals on container(s) Custody seals on coder(s) Samma Lond Daiverood) (s)		acese	. Z Z Z Z
felman.	Weylor	4.7%	21		1											5	0 8 0 6 6 6	by Counier?	Action .	by Counter? UPS	₹ ∂ž		₹ E E E E E E E E E E E E E E E E E E E	r x : Lone Star
Keinnquisried by:	0360			Received by ELOT:	101: 							Å,	Date	*****	176				`					Ś

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client:	Rice
Date/ Time:	4-76-07 4:25
Lab ID # :	7D2:008
Initials	o L

Sample Receipt Checklist

				Client Init	als
#1	Temperature of container/ cooler?	Yes	No	<u>-1.0 ° C</u>	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#A	Custody Seals Intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	<u> </u>	No		
j#S	Sample Instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	<u> </u>	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Res	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	des	No		
#11	Containers supplied by ELOT?	Kes	No		
#12	Samples in proper container/ bottle?	প্ৰহ	No	See Below	
#13	Samples properly preserved?	(ইউ%	No	See Below	
#14	Sample bottles intact?	NES'	No		
#15	Preservations documented on Chain of Custody?	(Yes	No		_
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes	No	See Below	
#18	All samples received within sufficient hold time?	(Yeè	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	CNot Applicable,	
#20	VOC samples have zero beadspace?	T NAS	No	Not Applicable	

Variance Documentation

Contact:

Contacted by:

Date/ Time

Regarding:

Corrective Action Taken:

Check all that Apply:

See attached e-mail/ fax

Client understands and would like to proceed with analysis Cooling process had begun shortly after sampling event

Analytical Report 287158

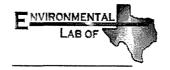
for

Rice Operating Co.

Project Manager: Kristin Pope

Hobbs B-32 Boot

13-AUG-07



12600 West I-20 East Odessa, Texas 79765

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NELAC certification numbers: Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America



13-AUG-07



Project Manager: **Kristin Pope Rice Operating Co.** 122 West Taylor Hobbs, NM 88240

Reference: XENCO Report No: 287158 Hobbs B-32 Boot Project Address:T18S R38E Sec32 B ~ Lea County New Mexico

Kristin Pope:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number287158. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report N287158 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectful

Brent Barron Odessa Laboratory Director

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Certificate of Analysis Summary 287158 Rice Operating Co., Hobbs, NM





Project Name: Hobbs B-32 Boot

Project Id: Contact: Kristin Pope

Date Received in Lab Aug-02-07 12:50 pm **Report Date:** 13-AUG-07 Brent Barron, II

Project Manager:

Project Location: T18S R38E Sec32 B ~ Lea County New N

	Lab Id:	287158-001				
Analysis Requested	Field Id:	Monitor Well #	ŧ 1			1
	Depth:					
	Matrix:	WATER				
	Sampled:	Jul-30-07 10:	55			
Alkalinity by EPA 310.1	Extracted:					
	Analyzed:	Aug-07-07 13:	:00			
	Units/RL:	mg/L	RL			
Alkalinity, Total (as CaCO3)		192	4.00]
Inorganic Anions by EPA 300	Extracted:					
Thorganie Aniono sy 22 Treoo	Analyzed:	Aug-07-07 11:	:48			
	Units/RL:	mg/L	RL			
Chloride		196	5.00	 		
Sulfate		104	5.00			
Metals per ICP by SW846 6010B	Extracted:					
	Analyzed:	Aug-03-07 14:	:39			
	Units/RL:	mg/L	RL	 		
Calcium		138	0.100		 	
Magnesium			0.010		 	
Potassium		7.14	0.500	 		
Sodium		83.2	0.500	 	 	
Residue, Filterable (TDS) by EPA	Extracted:					
160.1	Analyzed:	Aug-06-07 16:	:20			
	Units/RL:	mg/L	RL			
Total dissolved solids		778	5.00			
VOAs by SW-846 8260B	Extracted:	Aug-04-07 17:	:00			
	Analyzed:	Aug-05-07 20:	:23			
	Units/RL:	ug/L	RL			
Benzene		3.41	1.00			
Ethylbenzene		2.82	1.00	 		
Naphthalene		ND	1.00			
Toluene		ND	1.00	 		
o-Xylene		ND	1.00	 		
m,p-Xylenes		4.16	1.00	 	 	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing

Brent Barron

Odessa Laboratory Director

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- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.

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2505 N. Falkenburg Rd., Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555



Form 2 - Surrogate Recoveries



Project Name: Hobbs B-32 Boot

•	528-001 S / MS B	atch: 1 Matr	ix: Water				
Units: mg/L	S	URROGATE R	ECOVERY	STUDY			
VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flag		
4-Bromofluorobenzene	0.0436	0.0500	87	86-115			
Dibromofluoromethane	0.0480	0.0500	96	86-118			
1,2-Dichloroethane-D4	0.0409	0.0500	82	80-120			
Tolucne-D8	0.0468	0.0500	94	88-110			
Lab Batch #: 701795 Sample: 286	528-001 SD / MSD B	atch: ¹ Matr	ix: Water				
Units: mg/L	S	SURROGATE RECOVERY STUDY					
VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flage		
4-Bromofluorobenzene	0.0423	0.0500	85	86-115	*		
Dibromofluoromethane	0.0501	0.0500	100	86-118			
1,2-Dichloroethane-D4	0.0412	0.0500	82	80-120			
Toluene-D8	0.0481	0.0500	96	88-110			
Units: ug/L	S	SURROGATE RECOVERY STUDY					
VOAs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flag		
Analytes 4-Bromofluorobenzene	48.78	50.00	98	86-115			
Dibromofluoromethane	53.17	50.00	106	86-115			
1,2-Dichloroethane-D4	43.08	50.00	86	80-120			
Toluene-D8	48.77	50.00	98	88-110			
Lab Batch #: 701795 Sample: 497		atch: 1 Matr	ix: Water	L			
Units: ug/L		SURROGATE RECOVERY STUDY					
VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flag		
4-Bromofluorobenzene	43.28	50.00	87	86-115			
Dibromofluoromethane	45.30	50.00	91	86-118	•		
					*		
1,2-Dichloroethane-D4	37.94	50.00	76	80-120	-1-		

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries



Project Name: Hobbs B-32 Boot

ork Order #: 287158 Lab Batch #: 701795 Sample: 497846-1-E Units: ug/L		Project I ch: 1 Matr RROGATE R	ix: Water	STUDY	
VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits % R	Flags
4-Bromofluorobenzene	47.54	50.00	95	86-115	
Dibromofluoromethane	48.11	50.00	96	86-118	
1,2-Dichloroethane-D4	38.00	50.00	76	80-120	*
Toluene-D8	46.20	50.00	92	88-110	

** Surrogates outside limits; data and surrogates confirmed by reanalysis *** Poor recoveries due to dilution Surrogate Recovery [D] = 100 * A / B All results are based on MDL and validated for QC purposes.





Project Name: Hobbs B-32 Boot

Work Order #: 2	87158			Pr	oject ID:					
Lab Batch #:	701789	Sa	mple: 701789	-1-BKS	Matri	x: Water				
Date Analyzed:	08/07/2007	Date Prep	ared: 08/07/2	007	Analys	st: WRU				
Reporting Units:	mg/L	Ba	t ch #: 1	BLANK /	BLANK SPI	KE RE	COVERY	STUDY		
Alk	alinity by EPA 310.1		Blank Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike % R	Control Limits % R	Flags		
	Analytes				[C]	[D]				
Alkalinity, Total (as C	aCO3)		ND	200	194	97	80-120			
Lab Batch #:	701864	Sa	mple: 701864	-1-BKS	Matri	x: Water				
Date Analyzed:	08/07/2007	Date Prep	ared: 08/07/2	007	Analys	st: IRO				
Reporting Units:	mg/L	Ba	tch #: 1	BLANK /I	BLANK SPI	KE REG	COVERY	STUDY		
Inorga	anic Anions by EPA 300 Analytes		Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike % R [D]	Control Limits % R	Flags		
Chloride	······································		ND	10.0	9.03	90	90-110			
Sulfate			ND	10.0	9.63	96	90-110			
Lab Batch #: Date Analyzed: Reporting Units:		Date Prep	imple: 701571 ared: 08/03/2 tch #: 1	007		x: Water st: LATCO KE REO		STUDY		
Metals	per ICP by SW846 60101	R	Blank	Spike	Blank	Blank	Control			
ivictais	Analytes	D	Result [A]	Added [B]	Spike Result [C]	Spike % R [D]	Limits % R	Flags		
Calcium			ND	2.00	1.83	92	75-125			
Magnesium			ND	2.00	2.08	104	75-125			
Potassium			ND	2.00	2.28	114	75-125			
Sodium			ND	2.00	1.94	97	75-125			
Lab Batch #: Date Analyzed:	701795 08/05/2007		mple: 497846 ared: 08/04/2		Matrix: Water Analyst: CELKEE					
Reporting Units:	ug/L	Ba	tch #: 1	BLANK /I	BLANK SPI	KE REG	COVERY	STUDY		
VO	As by SW-846 8260B Analytes		Blank Result A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike % R [D]	Control Limits % R	Flags		
Benzene			ND	25.0	24.0	96	66-142			
Ethylbenzene			ND	25.0	26.4	106	75-125			
Toluene	<u> </u>		ND	25.0	24.3	97	59-139			
o-Xylene			ND	25.0	26.7	107	75-125			
m,p-Xylenes			ND	50.0	53.2	106	75-125			

Blank Spike Recovery [D] = 100*[C]/[B] All results are based on MDL and validated for QC purposes.



Form 3 - MS Recoveries



Project ID:

,

Project Name: Hobbs B-32 Boot

Work Order #: 287158 Lab Batch #: 701864

Date Analyzed: 08/07/2007	Date Prepared:	08/07/2007	,	Analyst:	IRO	
QC- Sample ID: 287159-003 S	Batch #:	1	x	Matrix:	Water	
Reporting Units: mg/L	MAT	RIX / MA	TRIX SPIK	E RECO	VERY STI	JDY
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sampl Result [C]	%R [D]	Control Limits %R	Flag
Analytes	[A]	[B]				
Chloride	548	250	862	126	90-110	X

Matrix Spike Percent Recovery $[D] = 100^{+}(C-A)/B$ Relative Percent Difference $[E] = 200^{+}(C-A)/(C+B)$ All Results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Hand See

S. Chile

11.5.73

Project Name: Hobbs B-32 Boot



Project ID:

1 Matrix: Water CELKEE Analyst: Batch #:

		Μ	MATRIX SPIKE	/ MATF	UX SPIK	IX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	TE RECC	VERY S	TUDY		
6 8260B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Spiked Result Sample [C] %R	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	ND	0.025	0.024	96	0.025	0.025	100	4	66-142	21	
	ND	0.025	0.027	108	0.025	0.026	104	4	75-125	20	
	ND	0.025	0.025	100	0.025	0.026	104	4	59-139	21	
	ND	0.025	0.027	108	0.025	0.027	108	0	75-125	20	
	ND	0.050	0.053	106	0.050	0.052	104	2	75-125	20	

Page 9 of 12

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

^

	XGNO		Fo	Form 3	- M
	Laborato	rics	Proje	Project Name: H	ne: H
	Work Order #	287158			
	Lab Batch ID:	701795	QC- Sample ID:	286528-001	-001 S
	Date Analyzed:	08/05/2007	Date Prepared:	08/04/2007	007
·	Reporting Units:	mg/L		W	MATRIX
	NO	VOAs by SW-846 8260B	Parent Sample	Spike	Spiked Re
		Analytes	Result [A]	Added [B]	<u> </u>
	Benzene		QN	0.025	0.0
	Ethylbenzene		ND	0.025	0.(
	Toluene		DN	0.025	0.(
	o-Xylene		QN	0.025	0.(
	m,p-Xylenes		QN	0.050	0.(
	Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*(D-G)/(D+	very [D] = 100*(C-A)/B \$ RPD = 200*(D-G)/(D+G)		Wa	Matrix Spike
۰. ۲	ND = Not Detected, J = Pre Not ApplicableN = See Narr	ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit	ank. NR = Not Requested, I =	: Interferenc	e, NA =

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Sample Duplicate Recovery



Project Name: Hobbs B-32 Boot

Work	Order	# •	287158	
WY UI K	VIUer	# .	20/150	

Lab Batch #: 701789			Project I	(D :	
Date Analyzed: 08/07/2007 Date Pr	epared: 08/0	7/2007	Analy	st: WRU	
QC- Sample ID: 287122-001 D	Batch #: 1		Matr	ix: Water	
Reporting Units: mg/L	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Alkalinity by EPA 310.1 Analyte	Parent Sample Result [A]	Sample Duplicate Result B]	RPD	Control Limits %RPD	Flag
Alkalinity, Total (as CaCO3)	216	216	0	20	
Lab Batch #: 701571	11		I	<u>I</u>	I
	epared: 08/0	3/2007	Analy	st: LATCO	R
	Batch #: 1		Matr	ix: Water	
Reporting Units: mg/L	SAMPLE	SAMPLE	DUPLIC	CATE REC	OVERY
Metals per ICP by SW846 6010B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Calcium	301	285	5	25	
Magnesium	120	134	11	25	
Potassium	20.1	15.8	24	25	
Sodium '	284	265	7	25	
	repared: 08/0 Batch #: 1	6/2007	٠	st: IRO ix: Water	
Reporting Units: mg/L	SAMPLE	SAMPLE			OVERY
Residue, Filterable (TDS) by EPA 160.1 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Total dissolved solids	754	784	4	30	
QC- Sample ID: 287348-002 D	Batch #: 1		Matr	st: IRO ix: Water	
Reporting Units: mg/L	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Residue, Filterable (TDS) by EPA 160.1 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Total dissolved solids	6250	6290	1	30	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes.

N OF CUSTODY RECORD AND ANALYSIS REQUEST

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Cont	tainer	75 T	F	Matr	ix	8015B	Γ		Ī		ß		┢	100	1					4	
Na ₂ S ₂ O ₃	None (1) 1 Liter HDPE	Other (Specify)	DW≂Drinking Water SL=Siudge	GW = Groundwater S≂Soil/Solid	NP=Non-Potable Specify Other	TPH: 418.1 8015M 80	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (CI, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg	Volatiles (BTEX-N 8260)	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	NORM.	Total Dissolved Solids			RUSH TAT (Pre-Schedule) 24,	Standard TAT
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#1 Temperature of container/ cooler? # No No No No No No No No No Present #2 Shipping container in good condition? Yes No No No Not Present #3 Custody Seals intact on shipping container/ cooler? Yes No Not Present #4 Custody Seals intact on sample bottles/ container? Yes No Not Present #5 Chain of Custody present? Yes No Not Present #6 Sample instructions complete of Chain of Custody? Yes No No #7 Chain of Custody signed when relinquished/ received? Yes No No						
Sn? Yes No ontainer/ cooler? Yes No ottles/ container? Yes No hain of Custody? Yes No nquished/ received? Yes No	#	Temperature of container/ cooler?	(Xes)	No	1, 3, °C	
Custody Seals intact on shipping container/ cooler? Yes No Custody Seals intact on sample bottles/ container? Yes No Chain of Custody present? Yes No Sample instructions complete of Chain of Custody? Yes No Chain of Custody signed when relinquished/ received? Yes No	#2	Shipping container in good condition?	Yes	No		
Custody Seals intact on sample bottles/ container? Yes No Chain of Custody present? No Sample instructions complete of Chain of Custody? Yes No Chain of Custody signed when relinquished/ received? Yes No	#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
Kes Yes	14	Custody Seals intact on sample bottles/ container?	XES	No	Not Present	
Yes	#5	Chain of Custody present?	Kes	No		
Yes)	9#	ete of Cha	Yes	No		
	47	Chain of Custody signed when relinquished/ received?	Yes	No		

Sample Receipt Checklist

Variance/ Corrective Action Report- Sample Log-In

05:21 28758 91 10.2.8 Ri() Date/ Time: Lab ID # : Initials: Client.

N W Salt

Environmental Lab of Texas



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

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

Receiving Date: 12/20/07 Reporting Date: 12/21/07 Project Number: NOT GIVEN Project Name: HOBBS B-32 BOOT Project Location: T18S-R38E-SEC32 B ~ LEA COUNTY, NM Lab Number: H13957-1 Sample ID: MONITOR WELL #1

Analysis Date: 12/20/07 Sampling Date: 12/19/07 Sample Type: WATER Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: BC

	Sample Result	Method			True Value
VOLATILES (mg/L)	H13957-1	Blank	QC	%Recov.	QC
Benzene	0.010	<0.002	0.114	114	0.100
Toluene	<0.002	<0.002	0.110	. 110	0.100
Ethylbenzene	0.005	<0.002	0.113	113	0.100
m,p-Xylene	<0.004	<0.004	0.223	112	0.200
o-Xylene	<0.002	<0.002	0.111	111	0.100
Naphthalene	<0.002	< 0.002	0.102	102	0.100

	% RECOVERY	
Dibromofluoromethane	111	
Toluene-d8	101	
Bromofluorobenzene	96	

METHODS: EPA SW-846 8260

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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 consequentia: damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, atfiliates 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 COMPANY ATTN: KRISTIN FARRIS-POPE 122 W. TAYLOR STREET HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 12/20/07 Reporting Date: 01/04/08 Project Number: NOT GIVEN Project Name: HOBBS B-32 BOOT Project Location: T18S-R38E-SEC32 B~LEA COUNTY, NM Sampling Date: 12/19/07 Sample Type: WATER Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: HM/KS

	Na	Ca	Mg	к	Conductivity	T-Alkalinity	
LAB NUMBER SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(<i>u</i> S/cm)	(mgCaCO ₃ /L)	
ANALYSIS DATE:	01/02/08	01/02/08	01/02/08	01/02/08	12/27/07	12/27/07	
H13957-1 MONITOR WELL #1	234	102	16.9	3.73	1,619	244	
Quality Control	NR	49.2	54.0	3.19	1,424	NR	
True Value QC	NR	50.0	50.0	3.00	1,413	NR	
% Recovery	NR	98.5	108	106	101	NR	
Relative Percent Difference	NR	< 0.1	6.1	10.2	0.9	NR	
METHODS:	SM	3500-Ca-D	3500-Mg E	8049	120.1	310.1	
,	CI	SO4	CO3	HCO ₃	рH	TDS	
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)	
ANALYSIS DATE:	12/27/07	12/31/07	12/27/07	12/27/07	12/27/07	12/20/07	
H13957-1 MONITOR WELL #1	332	121	0	298	6.68	892	
Quality Control	500	27.8	NR	1000	7.06	NR	
True Value QC	500	25.0	NR	1000	7.00	NR	
% Recovery	100	111	NR	100	101	NR	

METHODS: *Note: Revised report.

Relative Percent Difference

Chemist

01/04/0 Date

< 0.1

150.1

NR

160.1

PLEASE NOTE: Llability 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. This of the beliable 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.

17.4

375.4

< 0.1

SM4500-CI-B

NR

310.1

< 0.1

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ζ	Ĵ	~		Kristin Farris-Pope, Project Scientist		122 W Taylor Street ~ Hobbs, New Mexico 88240 Phone #:		Project Name: Hobbs B-32		Lea County		FIELD CODE										Í					
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