

1R - 336

Annual GW Mon. REPORTS

DATE:



CERTIFIED MAIL
RETURN RECIEPT NO. 7099 3400 0017 1737 2190

February 27, 2007

Mr. Wayne Price
New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, New Mexico 87504

RECEIVED

MAR - 1 2007
Environmental Bureau
Oil Conservation Division

RE: **2006 ANNUAL GROUNDWATER MONITORING REPORT
EME I-1 SWD OFFSITE ENCROACHMENT SITE
T20S, R36E, SECTION 1, UNIT LETTER I
NMOCD CASE NO.: 1R0464**

336

Mr. Price:

On behalf of Rice Operating Company (ROC), Trident Environmental takes this opportunity to submit the 2006 Annual Monitoring Well Report for the EME I-1 SWD Offsite Encroachment Site located in the Eunice-Monument-Eumont (EME) Salt Water Disposal (SWD) System.

This annual report consists of the following sections:

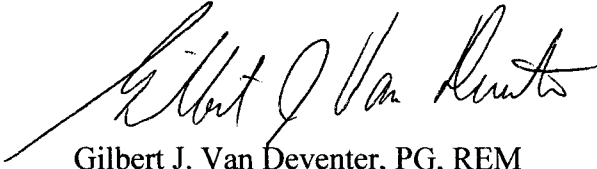
1. A map for each sampling event conducted during 2006 that depicts the groundwater gradient and analytical results of the constituents of concern
2. A table summarizing all laboratory results, depth to ground water and other pertinent data associated with ground water sampling at the site,
3. Graphs showing chemical concentration and depth to groundwater vs. time for chloride and TDS,
4. Laboratory analytical reports associated with the routine sampling for 2006.

The Corrective Action Plan for this site is being sent along with this annual report.

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

Thank you for your consideration concerning this annual summary of groundwater monitoring information. If you have any questions, please contact me at (432) 638-8740 or Kristin Pope at (505) 393-9174.

Sincerely,

A handwritten signature in black ink, appearing to read "Gilbert J. Van Deventer". The signature is fluid and cursive, with a long horizontal line extending from the start.

Gilbert J. Van Deventer, PG, REM

cc: CDH, JSC, KFP

enclosures: maps, table, graphs, and laboratory analytical reports.

ATTACHMENT A

Site Maps

Table

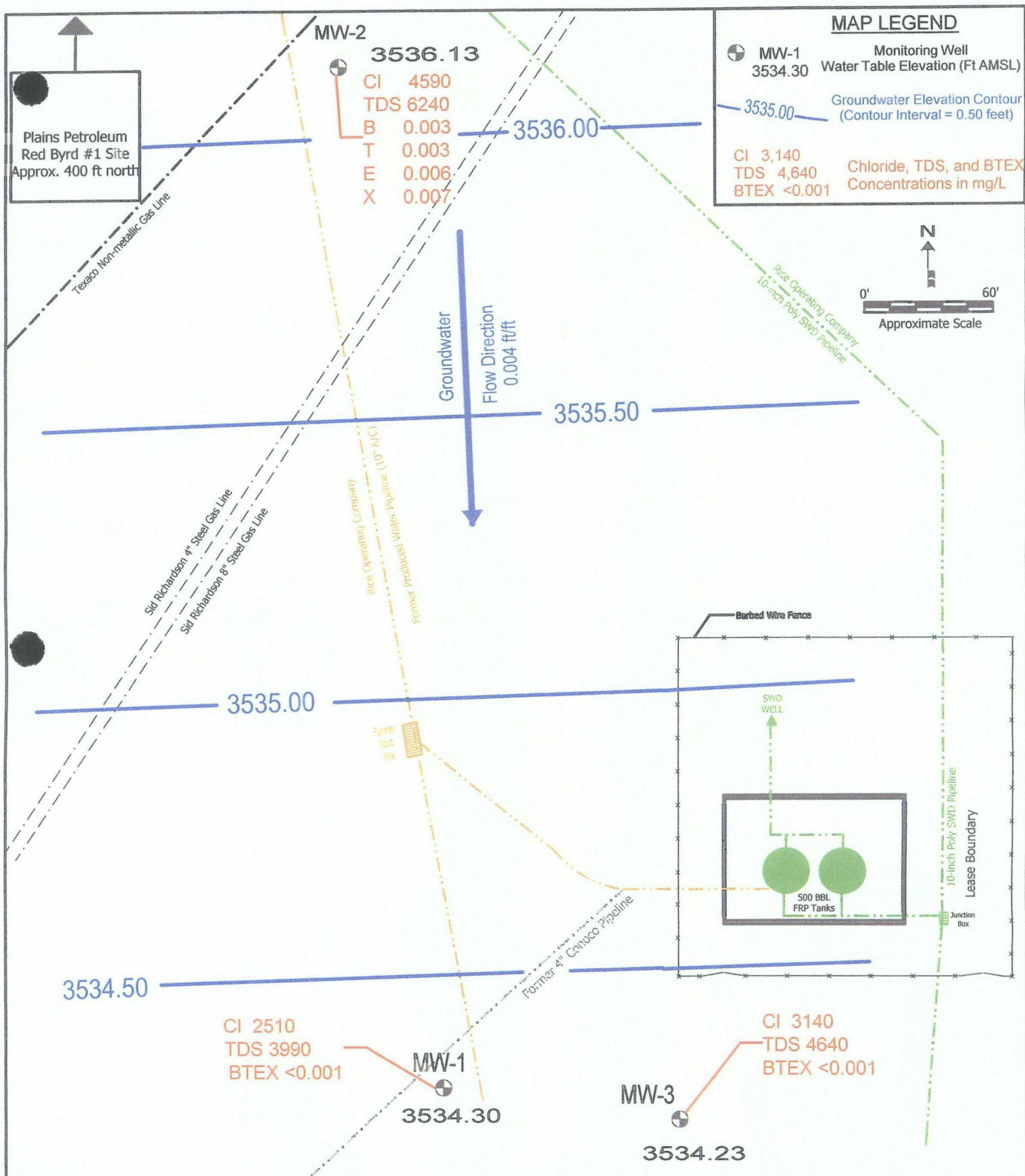
Graphs

ATTACHMENT B

Laboratory Analytical Reports

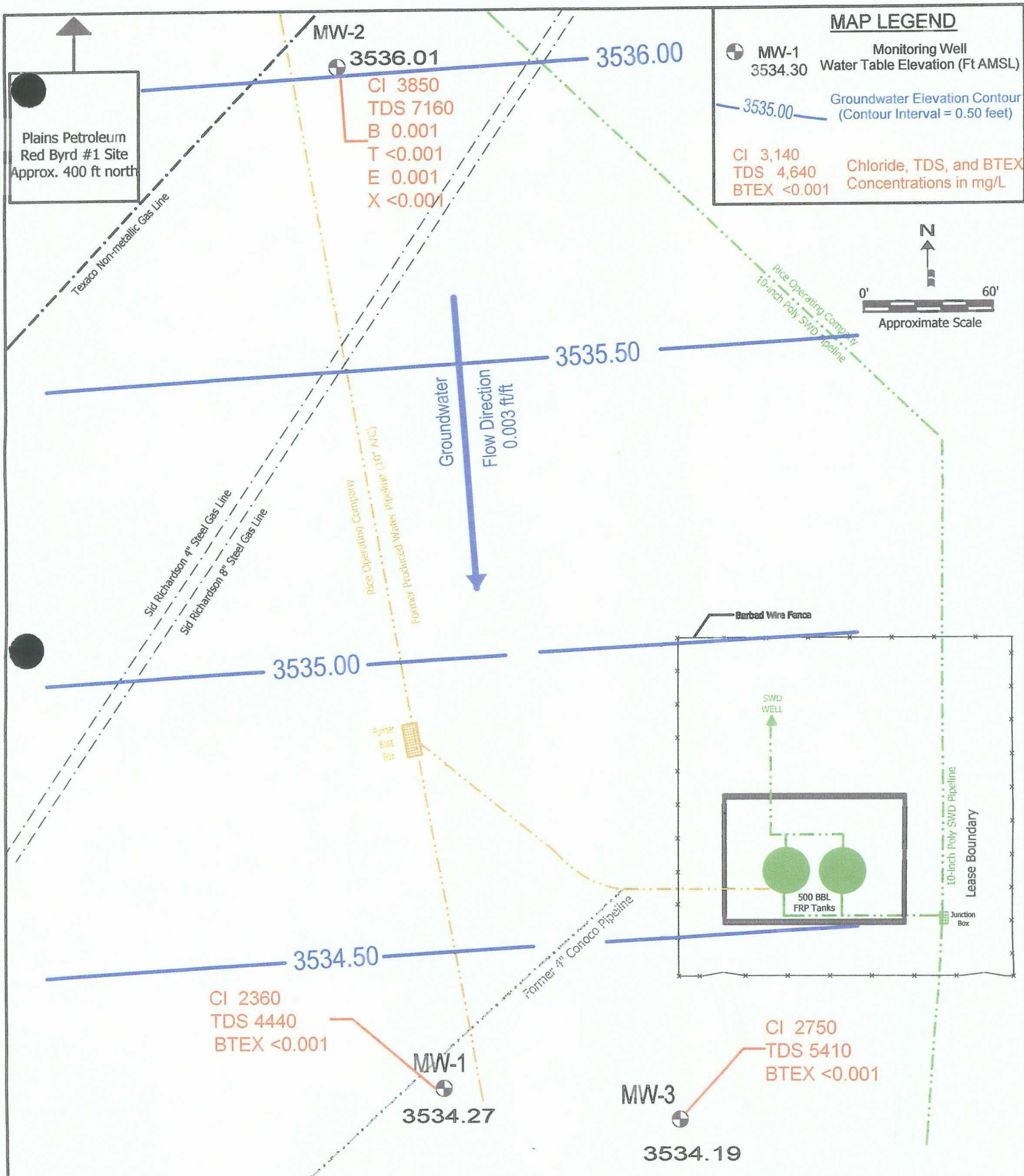
And

Chain of Custody Documentation



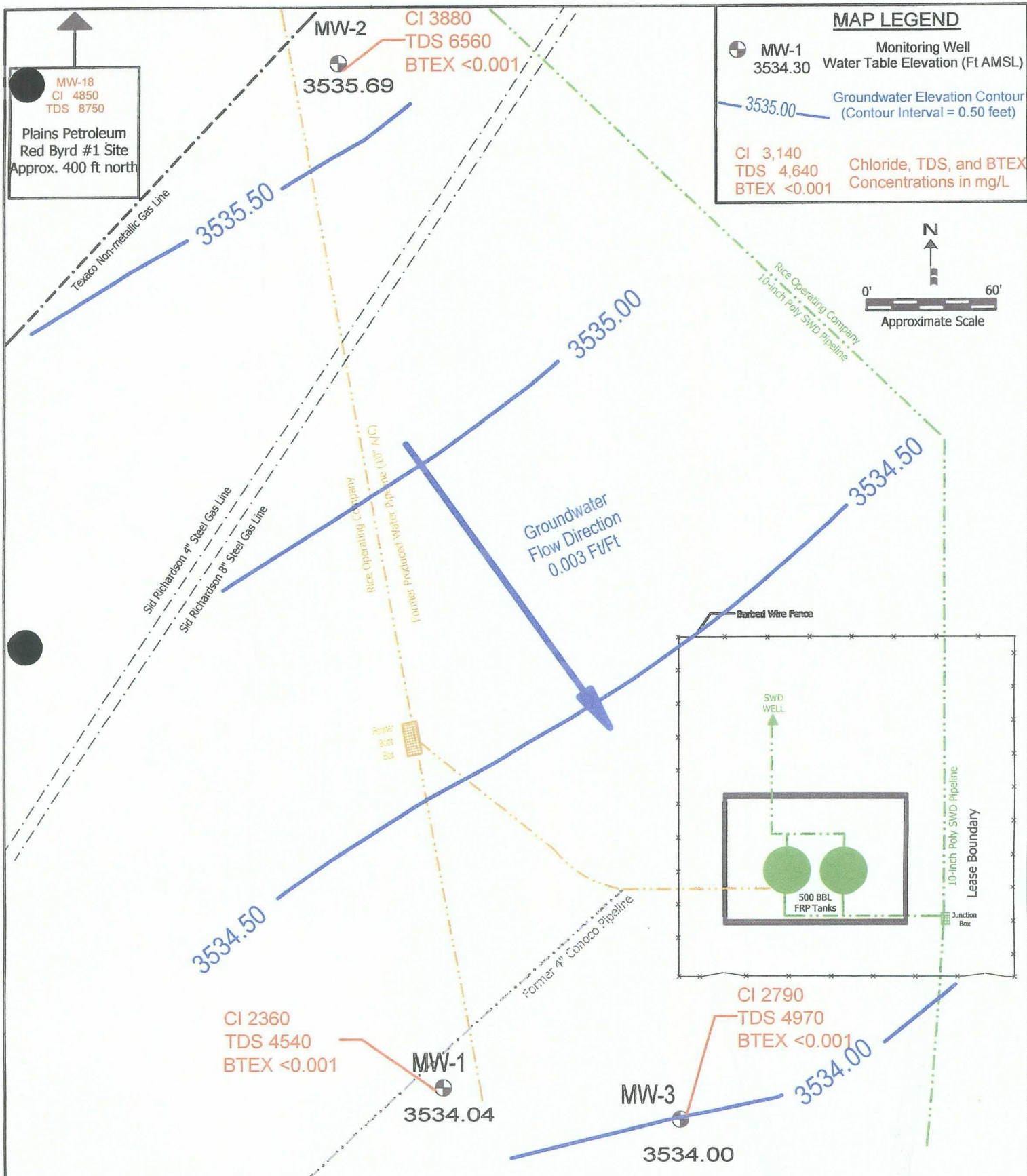
EME I-1 SWD SITE
 T20S - R36E - Section 1 - Unit I
RICE Operating Company

**GROUNDWATER GRADIENT AND
 CHLORIDE, TDS, & BTEX
 CONCENTRATION MAP
 FEBRUARY 15, 2006**



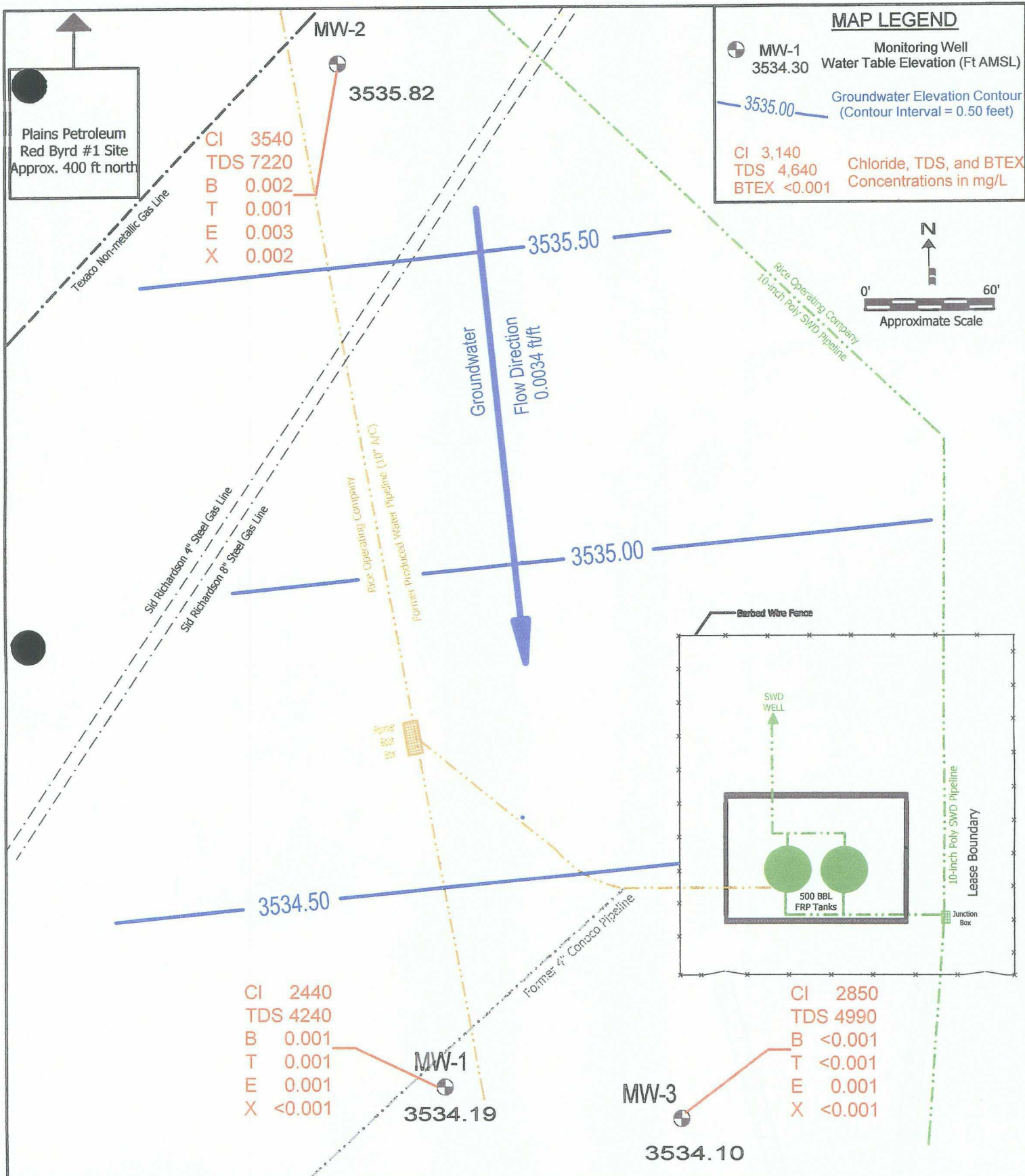
EME I-1 SWD SITE
 T20S - R36E - Section 1 - Unit I
RICE Operating Company

**GROUNDWATER GRADIENT AND
 CHLORIDE, TDS, & BTEX
 CONCENTRATION MAP
 MAY 22, 2006**



EME I-1 SWD SITE
 T20S - R36E - Section 1 - Unit I
RICE Operating Company

**GROUNDWATER GRADIENT AND
 CHLORIDE, TDS, & BTEX
 CONCENTRATION MAP
 AUGUST 28, 2006**



EME I-1 SWD SITE
T20S - R36E - Section 1 - Unit I
RICE Operating Company

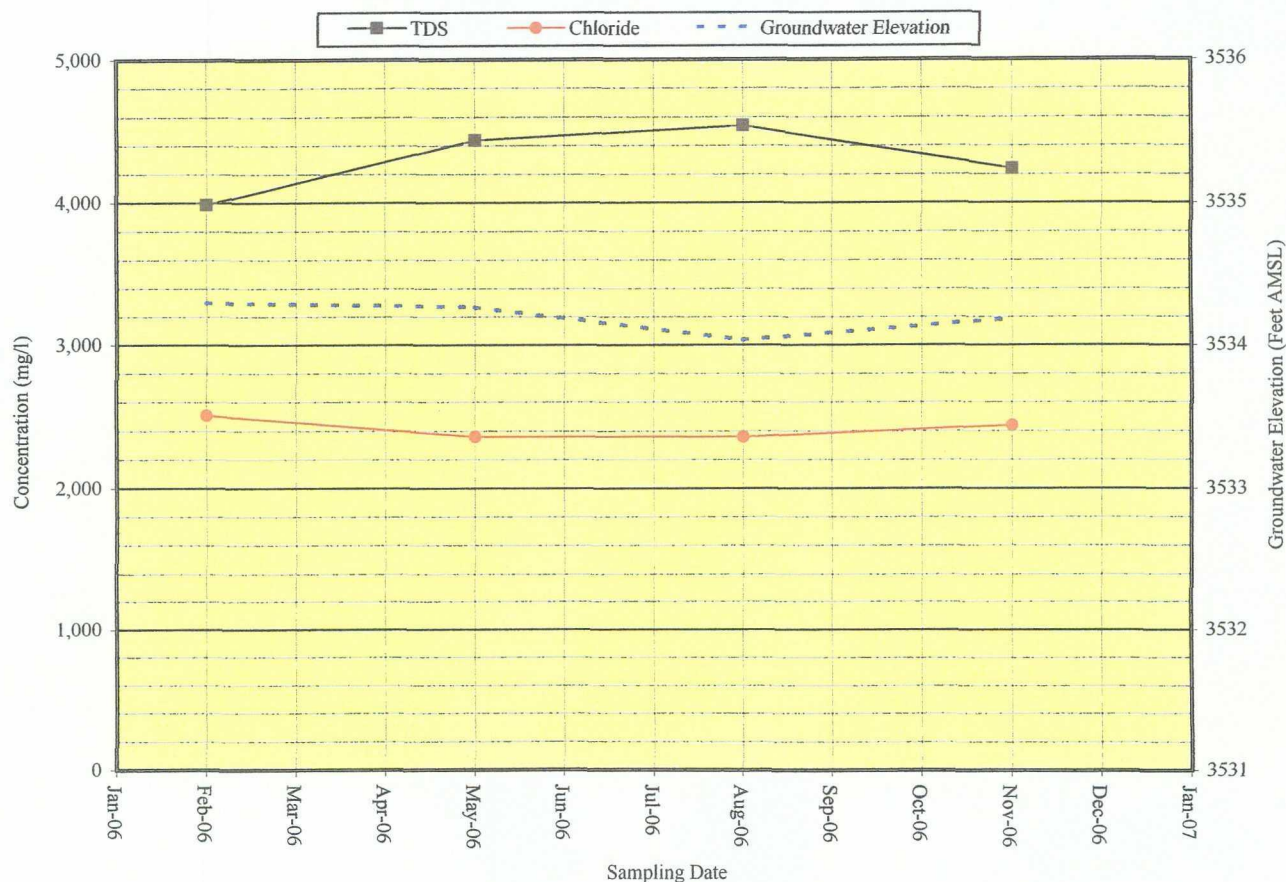
**GROUNDWATER GRADIENT AND
CHLORIDE, TDS, & BTEX
CONCENTRATION MAP
NOVEMBER 27, 2006**

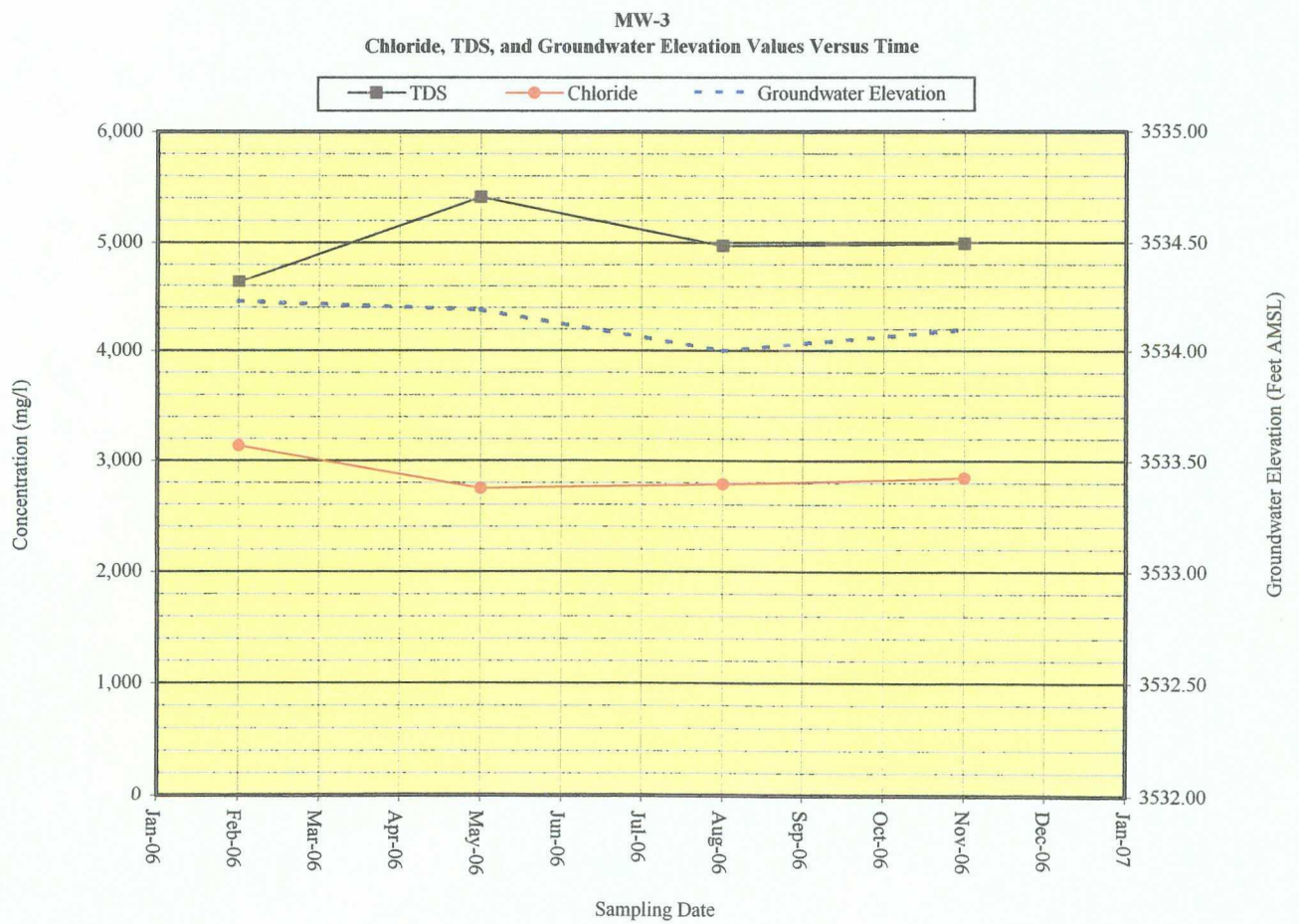
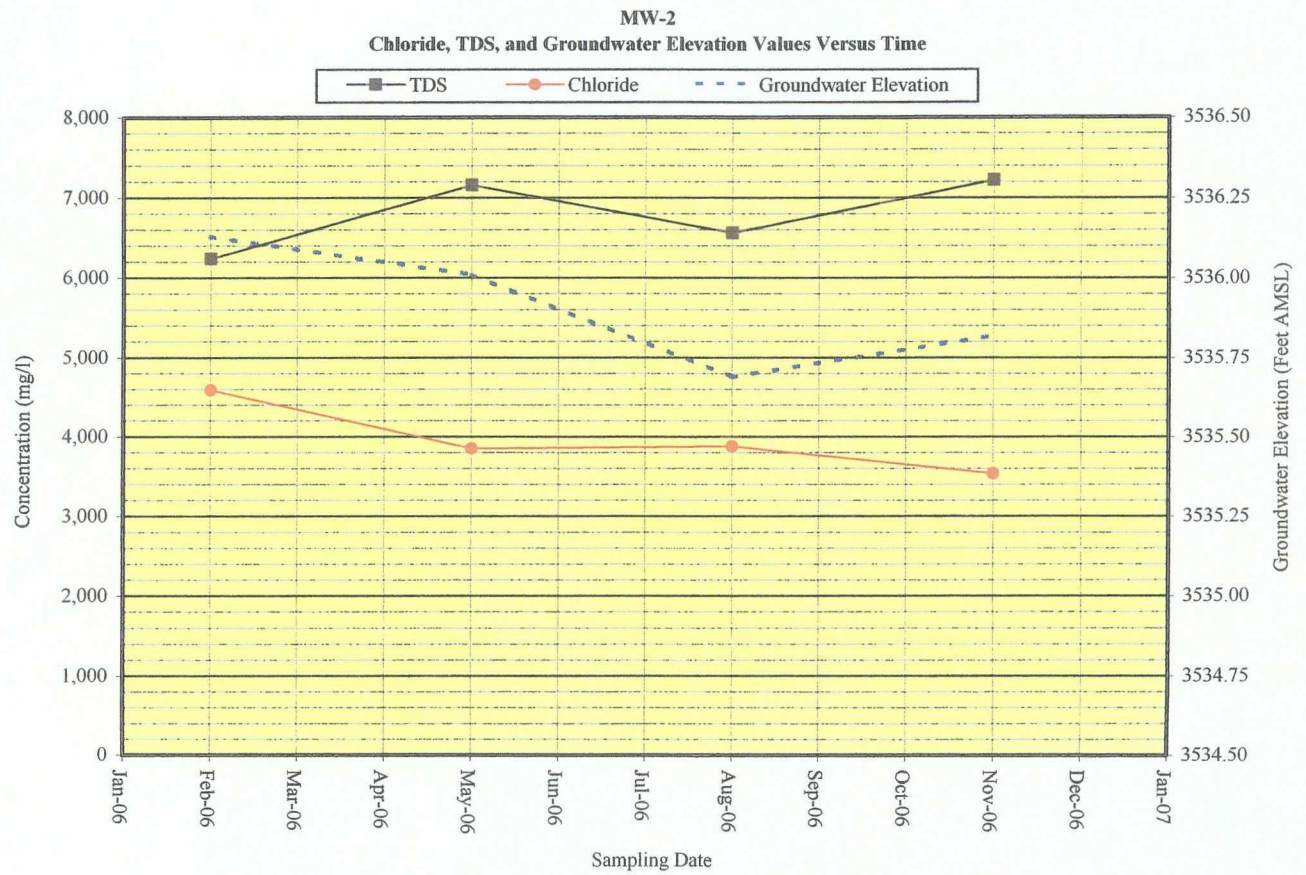
Table 1
Summary of Groundwater Sampling Results

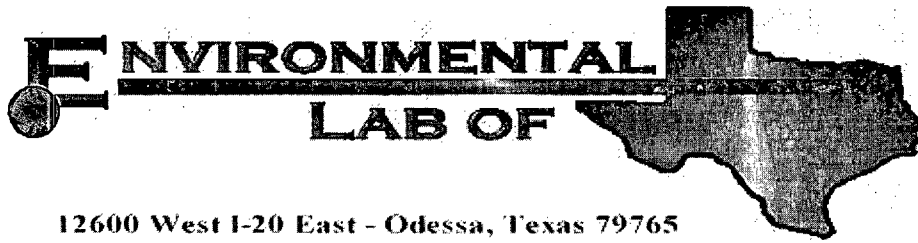
MW-1	02/15/06	35.09	3534.30	2,510	3,990	< 0.001	< 0.001	< 0.001	< 0.001
	05/22/06	35.12	3534.27	2,360	4,440	< 0.001	< 0.001	< 0.001	< 0.001
	08/28/06	35.35	3534.04	2,360	4,540	< 0.001	< 0.001	< 0.001	< 0.001
	11/27/06	35.20	3534.19	2,440	4,240	0.001	0.001	0.001	< 0.001
MW-2	02/15/06	33.52	3536.13	4,590	6,240	0.003	0.003	0.006	0.007
	05/22/06	33.64	3536.01	3,850	7,160	0.001	< 0.001	0.001	< 0.001
	08/28/06	33.96	3535.69	3,880	6,560	0.001	< 0.001	0.007	0.002
	11/27/06	33.83	3535.82	3,540	7,220	0.002	0.001	0.003	0.002
MW-3	02/15/06	34.59	3534.23	3,140	4,640	< 0.001	< 0.001	< 0.001	< 0.001
	05/22/06	34.63	3534.19	2,750	5,410	< 0.001	< 0.001	< 0.001	< 0.001
	08/28/06	34.82	3534.00	2,790	4,970	< 0.001	< 0.001	< 0.001	< 0.001
	11/27/06	34.72	3534.10	2,850	4,990	< 0.001	0.001	< 0.001	< 0.001
WQCC Standards				250	1000	0.01	0.75	0.75	0.62

Total Dissolved Solids (TDS), chloride, and BTEX concentrations listed in milligrams per liter (mg/L)
Analyses performed by Environmental Lab of Texas (Odessa TX) and TraceAnalysis (Midland TX).
Values in boldface type indicate concentrations exceed New Mexico Water Quality Commission (WQCC) standards.
AMSL - Above Mean Sea Level; BTOC - Below Top of Casing
Elevations and state plane coordinates surveyed by Basin Surveys, Hobbs, NM.

MW-1
Chloride, TDS, and Groundwater Elevation Values Versus Time







12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: EME I-1

Project Number: None Given

Location: Lea County

Lab Order Number: 6B16007

Report Date: 02/28/06

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

Project: EME I-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
02/28/06 09:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6B16007-01	Water	02/15/06 11:30	02/16/06 08:05
Monitor Well #2	6B16007-02	Water	02/15/06 09:40	02/16/06 08:05
Monitor Well #3	6B16007-03	Water	02/15/06 10:40	02/16/06 08:05

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

Project: EME I-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
02/28/06 09:48

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6B16007-01) Water									
Benzene	ND	0.00100	mg/L	1	EB62210	02/22/06	02/23/06	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		85.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.5 %	80-120		"	"	"	"	
Monitor Well #2 (6B16007-02) Water									
Benzene	0.00272	0.00100	mg/L	1	EB62210	02/22/06	02/23/06	EPA 8021B	
Toluene	0.00301	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.00583	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00749	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		96.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.5 %	80-120		"	"	"	"	
Monitor Well #3 (6B16007-03) Water									
Benzene	ND	0.00100	mg/L	1	EB62210	02/22/06	02/23/06	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		80.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.5 %	80-120		"	"	"	"	

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

Project: EME I-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
02/28/06 09:48

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 (6B16007-01) Water									
Total Alkalinity	297	2.00	mg/L	1	EB62205	02/23/06	02/23/06	EPA 310.1M	
Chloride	2510	25.0	"	50	EB61712	02/17/06	02/20/06	EPA 300.0	
Total Dissolved Solids	3990	5.00	"	1	EB61713	02/16/06	02/17/06	EPA 160.1	
Sulfate	92.0	25.0	"	50	EB61712	02/17/06	02/20/06	EPA 300.0	
Monitor Well #2 (6B16007-02) Water									
Total Alkalinity	386	2.00	mg/L	1	EB62205	02/23/06	02/23/06	EPA 310.1M	
Chloride	4590	50.0	"	100	EB61712	02/17/06	02/20/06	EPA 300.0	
Total Dissolved Solids	6240	5.00	"	1	EB61713	02/16/06	02/17/06	EPA 160.1	
Sulfate	156	50.0	"	100	EB61712	02/17/06	02/20/06	EPA 300.0	
Monitor Well #3 (6B16007-03) Water									
Total Alkalinity	335	2.00	mg/L	1	EB62205	02/23/06	02/23/06	EPA 310.1M	
Chloride	3140	50.0	"	100	EB61712	02/17/06	02/20/06	EPA 300.0	
Total Dissolved Solids	4640	5.00	"	1	EB61713	02/16/06	02/17/06	EPA 160.1	
Sulfate	211	50.0	"	100	EB61712	02/17/06	02/20/06	EPA 300.0	

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

Project: EME I-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
02/28/06 09:48

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Monitor Well #1 (6B16007-01) Water

Calcium	363	0.500	mg/L	50	EB61708	02/16/06	02/17/06	EPA 6010B	
Magnesium	171	0.0500	"	"	"	"	"	"	
Potassium	16.2	0.500	"	10	"	"	"	"	
Sodium	867	2.00	"	200	"	"	"	"	

Monitor Well #2 (6B16007-02) Water

Calcium	597	2.00	mg/L	200	EB61708	02/16/06	02/17/06	EPA 6010B	
Magnesium	251	0.0500	"	50	"	"	"	"	
Potassium	25.4	0.500	"	10	"	"	"	"	
Sodium	1350	2.00	"	200	"	"	"	"	

Monitor Well #3 (6B16007-03) Water

Calcium	429	0.500	mg/L	50	EB61708	02/16/06	02/17/06	EPA 6010B	
Magnesium	176	0.0500	"	"	"	"	"	"	
Potassium	18.8	0.500	"	10	"	"	"	"	
Sodium	1450	2.00	"	200	"	"	"	"	

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

Project: EME I-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
02/28/06 09:48

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 EB62210 - EPA 5030C (GC)

Blank (EB62210-BLK1)

Prepared & Analyzed: 02/22/06

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	33.2		ug/l	40.0		83.0	80-120			
Surrogate: 4-Bromofluorobenzene	32.2		"	40.0		80.5	80-120			

LCS (EB62210-BS1)

Prepared: 02/22/06 Analyzed: 02/23/06

Benzene	0.0461	0.00100	mg/L	0.0500		92.2	80-120			
Toluene	0.0509	0.00100	"	0.0500		102	80-120			
Ethylbenzene	0.0576	0.00100	"	0.0500		115	80-120			
Xylene (p/m)	0.120	0.00100	"	0.100		120	80-120			
Xylene (o)	0.0597	0.00100	"	0.0500		119	80-120			
Surrogate: a,a,a-Trifluorotoluene	38.0		ug/l	40.0		95.0	80-120			
Surrogate: 4-Bromofluorobenzene	42.7		"	40.0		107	80-120			

Calibration Check (EB62210-CCV1)

Prepared: 02/22/06 Analyzed: 02/23/06

Benzene	45.5		ug/l	50.0		91.0	80-120			
Toluene	50.4		"	50.0		101	80-120			
Ethylbenzene	56.9		"	50.0		114	80-120			
Xylene (p/m)	118		"	100		118	80-120			
Xylene (o)	58.5		"	50.0		117	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.1		"	40.0		97.8	80-120			
Surrogate: 4-Bromofluorobenzene	42.7		"	40.0		107	80-120			

Matrix Spike (EB62210-MS1)

Source: 6B16005-01

Prepared: 02/22/06 Analyzed: 02/23/06

Benzene	0.0463	0.00100	mg/L	0.0500	ND	92.6	80-120			
Toluene	0.0511	0.00100	"	0.0500	ND	102	80-120			
Ethylbenzene	0.0576	0.00100	"	0.0500	ND	115	80-120			
Xylene (p/m)	0.119	0.00100	"	0.100	ND	119	80-120			
Xylene (o)	0.0596	0.00100	"	0.0500	ND	119	80-120			
Surrogate: a,a,a-Trifluorotoluene	38.1		ug/l	40.0		95.2	80-120			
Surrogate: 4-Bromofluorobenzene	41.4		"	40.0		104	80-120			

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

Project: EME I-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
02/28/06 09:48

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
Batch EB62210 - EPA 5030C (GC)										
Matrix Spike Dup (EB62210-MSD1)		Source: 6B16005-01		Prepared: 02/22/06 Analyzed: 02/23/06						
Benzene	0.0467	0.00100	mg/L	0.0500	ND	93.4	80-120	0.860	20	
Toluene	0.0508	0.00100	"	0.0500	ND	102	80-120	0.00	20	
Ethylbenzene	0.0561	0.00100	"	0.0500	ND	112	80-120	2.64	20	
Xylene (p/m)	0.116	0.00100	"	0.100	ND	116	80-120	2.55	20	
Xylene (o)	0.0580	0.00100	"	0.0500	ND	116	80-120	2.55	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	36.8		ug/l	40.0		92.0	80-120			
Surrogate: 4-Bromofluorobenzene	38.6		"	40.0		96.5	80-120			

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

Project: EME I-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
02/28/06 09:48

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 EB61712 - General Preparation (WetChem)

Blank (EB61712-BLK1)

Prepared: 02/17/06 Analyzed: 02/20/06

Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							

LCS (EB61712-BS1)

Prepared: 02/17/06 Analyzed: 02/20/06

Sulfate	8.36		mg/L	10.0		83.6	80-120			
Chloride	8.58		"	10.0		85.8	80-120			

Calibration Check (EB61712-CCV1)

Prepared: 02/17/06 Analyzed: 02/20/06

Sulfate	8.95		mg/L	10.0		89.5	80-120			
Chloride	8.88		"	10.0		88.8	80-120			

Duplicate (EB61712-DUP1)

Source: 6B16004-01

Prepared: 02/17/06 Analyzed: 02/20/06

Sulfate	149	5.00	mg/L		149			0.00	20	
Chloride	189	5.00	"		189			0.00	20	

Batch EB61713 - General Preparation (WetChem)

Blank (EB61713-BLK1)

Prepared: 02/16/06 Analyzed: 02/17/06

Total Dissolved Solids	ND	5.00	mg/L							
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Duplicate (EB61713-DUP1)

Source: 6B16004-01

Prepared: 02/16/06 Analyzed: 02/17/06

Total Dissolved Solids	918	5.00	mg/L		958			4.26	5	
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Duplicate (EB61713-DUP2)

Source: 6B16005-02

Prepared: 02/16/06 Analyzed: 02/17/06

Total Dissolved Solids	1100	5.00	mg/L		1130			2.69	5	
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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: EME I-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
02/28/06 09:48

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 EB62205 - General Preparation (WetChem)										
Blank (EB62205-BLK1)				Prepared & Analyzed: 02/23/06						
Total Alkalinity	ND	2.00	mg/L							
LCS (EB62205-BS1)				Prepared & Analyzed: 02/23/06						
Bicarbonate Alkalinity	207	2.00	mg/L	200		104	85-115			
Duplicate (EB62205-DUP1)				Source: 6B16004-01		Prepared & Analyzed: 02/23/06				
Total Alkalinity	273	2.00	mg/L		278			1.81	20	
Reference (EB62205-SRM1)				Prepared & Analyzed: 02/23/06						
Total Alkalinity	97.0		mg/L	100		97.0	90-110			

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

Project: EME I-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
02/28/06 09:48

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 EB61708 - 6010B/No Digestion

Blank (EB61708-BLK1)

Prepared: 02/16/06 Analyzed: 02/17/06

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

Calibration Check (EB61708-CCV1)

Prepared: 02/16/06 Analyzed: 02/17/06

Calcium	2.28		mg/L	2.00	114	85-115
Magnesium	2.04		"	2.00	102	85-115
Potassium	1.92		"	2.00	96.0	85-115
Sodium	2.06		"	2.00	103	85-115

Duplicate (EB61708-DUP1)

Source: 6B16007-03

Prepared: 02/16/06 Analyzed: 02/17/06

Calcium	428	0.500	mg/L	429	0.233	20
Magnesium	168	0.0500	"	176	4.65	20
Potassium	17.9	0.500	"	18.8	4.90	20
Sodium	1440	2.00	"	1450	0.692	20

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

Project: EME I-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
02/28/06 09:48

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:

2/28/2006

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

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
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: Rice Op.

Date/Time: 2/16/06 8:05

Order #: 6B16007

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	0.5	C
Shipping container/cooler in good condition?	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?	Yes	No		
Sample Instructions complete on Chain of Custody?	Yes	No		
Chain of Custody signed when relinquished and received?	Yes	No		
Chain of custody agrees with sample label(s)	Yes	No		
Container labels legible and intact?	Yes	No		
Sample Matrix and properties same as on chain of custody?	Yes	No		
Samples in proper container/bottle?	Yes	No		
Samples properly preserved?	Yes	No		
Sample bottles intact?	Yes	No		
Preservations documented on Chain of Custody?	Yes	No		
Containers documented on Chain of Custody?	Yes	No		
Sufficient sample amount for indicated test?	Yes	No		
All samples received within sufficient hold time?	Yes	No		
VOC samples have zero headspace?	Yes	No	Not Applicable	

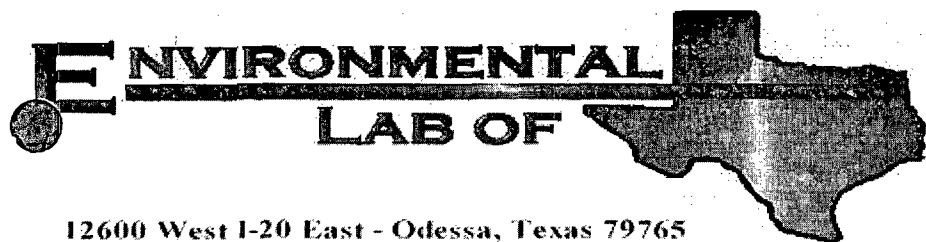
Other observations:

Variance Documentation:

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

Regarding: _____

Corrective Action Taken:



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: EME I-1

Project Number: None Given

Location: Lea County

Lab Order Number: 6E25010

Report Date: 06/05/06

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

Project: EME I-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
06/05/06 16:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6E25010-01	Water	05/22/06 10:00	05/25/06 10:50
Monitor Well #2	6E25010-02	Water	05/22/06 08:30	05/25/06 10:50
Monitor Well #3	6E25010-03	Water	05/22/06 11:00	05/25/06 10:50

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

Project: EME I-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
06/05/06 16:52

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 (6E25010-01) Water									
Total Alkalinity	356	2.00	mg/L	1	EE63019	06/01/06	06/01/06	EPA 310.1M	
Carbonate Alkalinity	ND	0.100	"	"	"	"	"	"	
Bicarbonate Alkalinity	ND	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	2360	50.0	"	100	EE63012	05/30/06	05/30/06	EPA 300.0	
Total Dissolved Solids	4440	5.00	"	1	EE63017	05/25/06	05/26/06	EPA 160.1	
Sulfate	211	50.0	"	100	EE63012	05/30/06	05/30/06	EPA 300.0	
Monitor Well #2 (6E25010-02) Water									
Total Alkalinity	394	2.00	mg/L	1	EE63019	06/01/06	06/01/06	EPA 310.1M	
Carbonate Alkalinity	ND	0.100	"	"	"	"	"	"	
Bicarbonate Alkalinity	ND	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	3850	100	"	200	EE63012	05/30/06	05/30/06	EPA 300.0	
Total Dissolved Solids	7160	5.00	"	1	EE63017	05/25/06	05/26/06	EPA 160.1	
Sulfate	386	100	"	200	EE63012	05/30/06	05/30/06	EPA 300.0	
Monitor Well #3 (6E25010-03) Water									
Total Alkalinity	323	2.00	mg/L	1	EE63019	06/01/06	06/01/06	EPA 310.1M	
Carbonate Alkalinity	ND	0.100	"	"	"	"	"	"	
Bicarbonate Alkalinity	ND	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	2750	50.0	"	100	EE63012	05/30/06	05/30/06	EPA 300.0	
Total Dissolved Solids	5410	5.00	"	1	EE63017	05/25/06	05/26/06	EPA 160.1	
Sulfate	243	50.0	"	100	EE63012	05/30/06	05/30/06	EPA 300.0	

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

Project: EME I-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
06/05/06 16:52

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6E25010-01) Water									
Calcium	374	0.500	mg/L	50	EE63023	05/30/06	05/30/06	EPA 6010B	
Magnesium	187	0.0500	"	"	"	"	"	"	
Potassium	15.2	0.500	"	10	"	"	"	"	
Sodium	1530	2.00	"	200	"	"	"	"	
Monitor Well #2 (6E25010-02) Water									
Calcium	569	5.00	mg/L	500	EE63023	05/30/06	05/30/06	EPA 6010B	
Magnesium	299	0.0500	"	50	"	"	"	"	
Potassium	17.7	0.500	"	10	"	"	"	"	
Sodium	1320	5.00	"	500	"	"	"	"	
Monitor Well #3 (6E25010-03) Water									
Calcium	446	0.500	mg/L	50	EE63023	05/30/06	05/30/06	EPA 6010B	
Magnesium	198	0.0500	"	"	"	"	"	"	
Potassium	15.5	0.500	"	10	"	"	"	"	
Sodium	1060	2.00	"	200	"	"	"	"	

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

Project: EME I-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
06/05/06 16:52

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 (6E25010-01) Water									
Benzene	ND	1.00	ug/l	1	EF60104	05/31/06	06/01/06	EPA 8260B	
Toluene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	"	
Xylene (p/m)	ND	1.00	"	"	"	"	"	"	
Xylene (o)	ND	1.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		107 %	68-129		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		89.8 %	72-132		"	"	"	"	
Surrogate: Toluene-d8		93.0 %	74-118		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.2 %	65-140		"	"	"	"	

Monitor Well #2 (6E25010-02) Water

Benzene	J [0.590]	1.00	ug/l	1	EF60104	05/31/06	06/01/06	EPA 8260B	J
Toluene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	7.27	1.00	"	"	"	"	"	"	
Xylene (p/m)	2.34	1.00	"	"	"	"	"	"	
Xylene (o)	ND	1.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		112 %	68-129		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	72-132		"	"	"	"	
Surrogate: Toluene-d8		96.6 %	74-118		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.6 %	65-140		"	"	"	"	

Monitor Well #3 (6E25010-03) Water

Benzene	ND	1.00	ug/l	1	EF60104	05/31/06	06/01/06	EPA 8260B	
Toluene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	"	
Xylene (p/m)	ND	1.00	"	"	"	"	"	"	
Xylene (o)	ND	1.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		112 %	68-129		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	72-132		"	"	"	"	
Surrogate: Toluene-d8		93.4 %	74-118		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.6 %	65-140		"	"	"	"	

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

Project: EME I-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
06/05/06 16:52

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 EE63012 - General Preparation (WetChem)

Blank (EE63012-BLK1)

Prepared & Analyzed: 05/30/06

Sulfate	ND	0.500	mg/L
Chloride	ND	0.500	"

LCS (EE63012-BS1)

Prepared & Analyzed: 05/30/06

Chloride	9.89	0.500	mg/L	10.0	98.9	80-120
Sulfate	8.10	0.500	"	10.0	81.0	80-120

Calibration Check (EE63012-CCV1)

Prepared & Analyzed: 05/30/06

Chloride	9.82		mg/L	10.0	98.2	80-120
Sulfate	8.15		"	10.0	81.5	80-120

Duplicate (EE63012-DUP1)

Source: 6E25009-01

Prepared & Analyzed: 05/30/06

Sulfate	248	12.5	mg/L	246	0.810	20
Chloride	425	12.5	"	420	1.18	20

Matrix Spike (EE63012-MS1)

Source: 6E25009-01

Prepared & Analyzed: 05/30/06

Chloride	736	12.5	mg/L	250	420	126	80-120	S-07
Sulfate	439	12.5	"	250	246	77.2	80-120	S-07

Batch EE63017 - Filtration Preparation

Blank (EE63017-BLK1)

Prepared: 05/25/06 Analyzed: 05/26/06

Total Dissolved Solids	ND	5.00	mg/L
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Duplicate (EE63017-DUP1)

Source: 6E25009-01

Prepared: 05/25/06 Analyzed: 05/26/06

Total Dissolved Solids	1410	5.00	mg/L	1430	1.41	5
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Rice Operating Co.
122 W. Taylor
Jobbs NM, 88240

Project: EME I-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
06/05/06 16:52

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 EE63019 - General Preparation (WetChem)

Blank (EE63019-BLK1)

Prepared & Analyzed: 06/01/06

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

LCS (EE63019-BS1)

Prepared & Analyzed: 06/01/06

Bicarbonate Alkalinity	216	2.00	mg/L	200		108	85-115			
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Duplicate (EE63019-DUP1)

Source: 6E25009-01

Prepared & Analyzed: 06/01/06

Total Alkalinity	213	2.00	mg/L		214			0.468	20	
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Reference (EE63019-SRM1)

Prepared & Analyzed: 06/01/06

Total Alkalinity	96.0		mg/L	100		96.0	90-110			
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Rice Operating Co.
122 W. Taylor
Jobbs NM, 88240

Project: EME I-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
06/05/06 16:52

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 EE63023 - 6010B/No Digestion

Blank (EE63023-BLK1)

Prepared & Analyzed: 05/30/06

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

Calibration Check (EE63023-CCV1)

Prepared & Analyzed: 05/30/06

Calcium	2.15		mg/L	2.00	108	85-115
Magnesium	2.25		"	2.00	112	85-115
Potassium	1.90		"	2.00	95.0	85-115
Sodium	1.93		"	2.00	96.5	85-115

Duplicate (EE63023-DUP1)

Source: 6E24005-01

Prepared & Analyzed: 05/30/06

Calcium	105	0.500	mg/L	108		2.82	20
Magnesium	44.8	0.0100	"	43.7		2.49	20
Potassium	10.3	0.500	"	11.1		7.48	20
Sodium	266	0.500	"	260		2.28	20

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

Project: EME I-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
06/05/06 16:52

Volatile Organic Compounds by EPA Method 8260B - 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 EF60104 - EPA 5030C (GCMS)

Blank (EF60104-BLK1)

Prepared & Analyzed: 05/31/06

Benzene	ND	1.00	ug/l							
Toluene	ND	1.00	"							
Ethylbenzene	ND	1.00	"							
Xylene (p/m)	ND	1.00	"							
Xylene (o)	ND	1.00	"							
Surrogate: Dibromofluoromethane	53.2		"	50.0		106	68-129			
Surrogate: 1,2-Dichloroethane-d4	47.3		"	50.0		94.6	72-132			
Surrogate: Toluene-d8	45.4		"	50.0		90.8	74-118			
Surrogate: 4-Bromofluorobenzene	40.7		"	50.0		81.4	65-140			

LCS (EF60104-BS1)

Prepared: 05/31/06 Analyzed: 06/01/06

Benzene	25.0	1.00	ug/l	25.0		100	70-130			
Toluene	25.5	1.00	"	25.0		102	70-130			
Ethylbenzene	25.8	1.00	"	25.0		103	70-130			
Xylene (p/m)	47.4	1.00	"	50.0		94.8	70-130			
Xylene (o)	25.2	1.00	"	25.0		101	70-130			
Surrogate: Dibromofluoromethane	49.6		"	50.0		99.2	68-129			
Surrogate: 1,2-Dichloroethane-d4	46.0		"	50.0		92.0	72-132			
Surrogate: Toluene-d8	45.9		"	50.0		91.8	74-118			
Surrogate: 4-Bromofluorobenzene	41.6		"	50.0		83.2	65-140			

Calibration Check (EF60104-CCV1)

Prepared: 05/31/06 Analyzed: 06/01/06

Toluene	46.1		ug/l	50.0		92.2	70-130			
Ethylbenzene	39.0		"	50.0		78.0	70-130			
Surrogate: Dibromofluoromethane	48.2		"	50.0		96.4	68-129			
Surrogate: 1,2-Dichloroethane-d4	43.1		"	50.0		86.2	72-132			
Surrogate: Toluene-d8	45.2		"	50.0		90.4	74-118			
Surrogate: 4-Bromofluorobenzene	39.4		"	50.0		78.8	65-140			

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

Project: EME I-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
06/05/06 16:52

Volatile Organic Compounds by EPA Method 8260B - 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 EF60104 - EPA 5030C (GCMS)

Matrix Spike (EF60104-MS1)

Source: 6E25011-01

Prepared: 05/31/06 Analyzed: 06/01/06

Benzene	23.8	1.00	ug/l	25.0	ND	95.2	80-120			
Toluene	24.1	1.00	"	25.0	ND	96.4	80-120			
Ethylbenzene	24.8	1.00	"	25.0	ND	99.2	80-120			
Xylene (p/m)	45.3	1.00	"	50.0	ND	90.6	80-120			
Xylene (o)	24.2	1.00	"	25.0	ND	96.8	80-120			
Surrogate: Dibromofluoromethane	48.0		"	50.0		96.0	68-129			
Surrogate: 1,2-Dichloroethane-d4	44.5		"	50.0		89.0	72-132			
Surrogate: Toluene-d8	45.4		"	50.0		90.8	74-118			
Surrogate: 4-Bromofluorobenzene	40.5		"	50.0		81.0	65-140			

Matrix Spike Dup (EF60104-MSD1)

Source: 6E25011-01

Prepared: 05/31/06 Analyzed: 06/01/06

Benzene	25.2	1.00	ug/l	25.0	ND	101	80-120	5.71	20	
Toluene	25.7	1.00	"	25.0	ND	103	80-120	6.43	20	
Ethylbenzene	26.1	1.00	"	25.0	ND	104	80-120	5.11	20	
Xylene (p/m)	47.2	1.00	"	50.0	ND	94.4	80-120	4.11	20	
Xylene (o)	25.4	1.00	"	25.0	ND	102	80-120	4.84	20	
Surrogate: Dibromofluoromethane	46.4		"	50.0		92.8	68-129			
Surrogate: 1,2-Dichloroethane-d4	42.9		"	50.0		85.8	72-132			
Surrogate: Toluene-d8	43.4		"	50.0		86.8	74-118			
Surrogate: 4-Bromofluorobenzene	38.6		"	50.0		77.2	65-140			

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

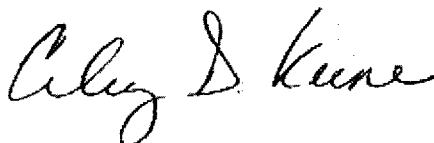
Project: EME I-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
06/05/06 16:52

Notes and Definitions

S-07 Recovery outside Laboratory historical or method prescribed limits.
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: _____



Date: _____

6/5/2006

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

Jeanne Mc Murrey, Inorg. Tech Director
La Tasha Cornish, Chemist
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.

Project Manager: Kristin Farris Pope kpope@riceswd.com

Company Name **RICE Operating Company**

Company Address: 122 W. Taylor Street

City/State/Zip: Hobbs, New Mexico 88240

Telephone No: (505) 393-9174

Fax No: (505) 397-1471

Sampler Signature: Rozanne Johnson (505) 631-9310

Email: rozanne@valornet.com

[illegible]

Environmental Lab of Texas
Variance / Corrective Action Report – Sample Log-In

Client: Rice Op.
 Date/Time: 5/25/06 10:50
 Order #: 16E25010
 Initials: CK

Sample Receipt Checklist

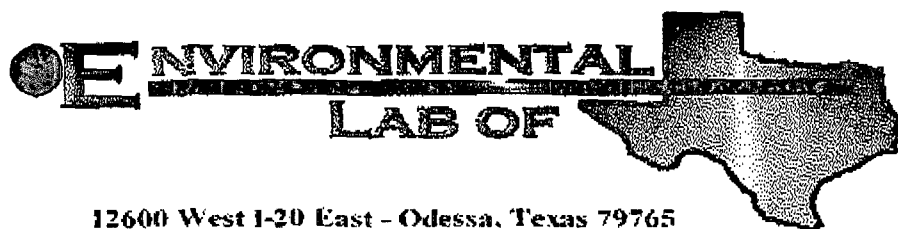
Temperature of container/cooler?	Yes	No	25	C
Shipping container/cooler in good condition?	☒	No		
Custody Seals intact on shipping container/cooler?	☒	No	Not present	
Custody Seals intact on sample bottles?	☒	No	Not present	
Chain of custody present?	☒	No		
Sample Instructions complete on Chain of Custody?	☒	No		
Chain of Custody signed when relinquished and received?	☒	No		
Chain of custody agrees with sample label(s)	☒	No		
Container labels legible and intact?	☒	No		
Sample Matrix and properties same as on chain of custody?	☒	No		
Samples in proper container/bottle?	☒	No		
Samples properly preserved?	☒	No		
Sample bottles intact?	☒	No		
Preservations documented on Chain of Custody?	☒	No		
Containers documented on Chain of Custody?	☒	No		
Sufficient sample amount for indicated test?	☒	No		
All samples received within sufficient hold time?	☒	No		
QC samples have zero headspace?	☒	No	Not Applicable	

Other observations:

Variance Documentation:

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

Corrective Action Taken:



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: EME I-1 SWD

Project Number: None Given

Location: T20S-R36E-Sec1T, Lea County, NM

Lab Order Number: 6H31004

Report Date: 09/06/06

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

Project: EME I-J SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6H31004-01	Water	08/28/06 10:25	08-31-2006 10:15
Monitor Well #2	6H31004-02	Water	08/28/06 11:40	08-31-2006 10:15
Monitor Well #3	6H31004-03	Water	08/28/06 09:05	08-31-2006 10:15

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

Project: EME I-1 SWD
Project Number: None Given
Project Manager: Kristin Parris-Pope

Fax: (505) 397-1471

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6H31004-01) Water									
Benzene	ND	0.00100	mg/L	1	EH63104	08/31/06	08/31/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		110 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.5 %	80-120		"	"	"	"	
Monitor Well #2 (6H31004-02) Water									
Benzene	0.00130	0.00100	mg/L	1	EH63104	08/31/06	08/31/06	EPA 8021B	
Toluene	1 [0.000562]	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.00359	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00229	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		110 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.8 %	80-120		"	"	"	"	
Monitor Well #3 (6H31004-03) Water									
Benzene	ND	0.00100	mg/L	1	EH63104	08/31/06	08/31/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		101 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.3 %	80-120		"	"	"	"	

Environmental Lab of Texas

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

Project: EME I-1 SWD
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	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6H31004-01) Water									
Total Alkalinity	396	4.00	mg/L	2	EH63107	08/31/06	08/31/06	EPA 310.1M	
Chloride	2360	25.0	"	50	EH63108	08/31/06	08/31/06	EPA 300.0	
Total Dissolved Solids	4540	10.0	"	1	ET60503	08/31/06	09/05/06	EPA 160.1	
Sulfate	66.7	25.0	"	50	EH63108	08/31/06	08/31/06	EPA 300.0	
Monitor Well #2 (6H31004-02) Water									
Total Alkalinity	400	4.00	mg/L	2	EH63107	08/31/06	08/31/06	EPA 310.1M	
Chloride	3880	50.0	"	100	EH63108	08/31/06	08/31/06	EPA 300.0	
Total Dissolved Solids	6560	10.0	"	1	ET60503	08/31/06	09/05/06	EPA 160.1	
Sulfate	98.3	50.0	"	100	EH63108	08/31/06	08/31/06	EPA 300.0	
Monitor Well #3 (6H31004-03) Water									
Total Alkalinity	400	4.00	mg/L	2	EH63107	08/31/06	08/31/06	EPA 310.1M	
Chloride	2790	50.0	"	100	EH63108	08/31/06	08/31/06	EPA 300.0	
Total Dissolved Solids	4970	10.0	"	1	ET60503	08/31/06	09/05/06	EPA 160.1	
Sulfate	139	50.0	"	100	EH63108	08/31/06	08/31/06	EPA 300.0	

Environmental Lab of Texas

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

Project: EME I-1 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax (505) 397-1471

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6H31004-01) Water									
Calcium	409	4.05	mg/L	50	EH63111	08/31/06	08/31/06	EPA 6010B	
Magnesium	201	1.80	"	"	"	"	"	"	
Potassium	16.9	0.600	"	10	"	"	"	"	
Sodium	852	10.8	"	250	"	"	"	"	
Monitor Well #2 (6H31004-02) Water									
Calcium	609	20.2	mg/L	250	EH63111	08/31/06	08/31/06	EPA 6010B	
Magnesium	340	9.00	"	"	"	"	"	"	
Potassium	25.4	0.600	"	10	"	"	"	"	
Sodium	1260	10.8	"	250	"	"	"	"	
Monitor Well #3 (6H31004-03) Water									
Calcium	449	4.05	mg/L	50	EH63111	08/31/06	08/31/06	EPA 6010B	
Magnesium	195	1.80	"	"	"	"	"	"	
Potassium	18.4	0.600	"	10	"	"	"	"	
Sodium	952	10.8	"	250	"	"	"	"	

Environmental Lab of Texas

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Page 4 of 10

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

Project: EME I-1 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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 EH63104 - EPA 5030C (GC)**Blank (EH63104-BLK1)**

Prepared & Analyzed: 08/31/06

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: <i>a,a,a</i> -Trifluorotoluene	39.0		ug/l	40.0		97.5	80-120			
Surrogate: 4-Bromofluorobenzene	36.9		"	40.0		92.2	80-120			

LCS (EH63104-BS1)

Prepared & Analyzed: 08/31/06

Benzene	0.0489	0.00100	mg/L	0.0500		97.8	80-120			
Toluene	0.0518	0.00100	"	0.0500		104	80-120			
Ethylbenzene	0.0507	0.00100	"	0.0500		101	80-120			
Xylene (p/m)	0.119	0.00100	"	0.100		119	80-120			
Xylene (o)	0.0574	0.00100	"	0.0500		115	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	43.5		ug/l	40.0		109	80-120			
Surrogate: 4-Bromofluorobenzene	47.5		"	40.0		119	80-120			

Calibration Check (EH63104-CCV1)

Prepared & Analyzed: 08/31/06

Benzene	51.7		ug/l	50.0		103	80-120			
Toluene	54.4		"	50.0		109	80-120			
Ethylbenzene	52.4		"	50.0		105	80-120			
Xylene (p/m)	109		"	100		109	80-120			
Xylene (o)	52.8		"	50.0		106	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	44.9		"	40.0		112	80-120			
Surrogate: 4-Bromofluorobenzene	39.8		"	40.0		99.5	80-120			

Matrix Spike (EH63104-MS1)

Source: 6H31005-03

Prepared & Analyzed: 08/31/06

Benzene	0.0511	0.00100	mg/L	0.0500	ND	102	80-120			
Toluene	0.0537	0.00100	"	0.0500	ND	107	80-120			
Ethylbenzene	0.0500	0.00100	"	0.0500	ND	100	80-120			
Xylene (p/m)	0.118	0.00100	"	0.100	ND	118	80-120			
Xylene (o)	0.0564	0.00100	"	0.0500	ND	113	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	43.9		ug/l	40.0		110	80-120			
Surrogate: 4-Bromofluorobenzene	46.1		"	40.0		115	80-120			

Environmental Lab of Texas

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

Project: EME I-1 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spikes Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH63104 - EPA 5030C (GC)										
Matrix Spike Dup (EH63104-MSD1)		Source: 6H31005-03			Prepared & Analyzed: 08/31/06					
Benzene	0.0513	0.00100	mg/L	0.0500	ND	103	80-120	0.976	20	
Toluene	0.0536	0.00100	"	0.0500	ND	107	80-120	0.00	20	
Ethylbenzene	0.0511	0.00100	"	0.0500	ND	102	80-120	1.98	20	
Xylene (p/m)	0.112	0.00100	"	0.100	ND	112	80-120	5.22	20	
Xylene (o)	0.0531	0.00100	"	0.0500	ND	106	80-120	6.39	20	
Surrogate: a,a,u-Trifluorotoluene	43.9		ug/l	40.0		110	80-120			
Surrogate: 4-Bromofluorobenzene	46.1		"	40.0		115	80-120			

Environmental Lab of Texas

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Page 6 of 10

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

Project: EME I-1 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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 EH63107 - General Preparation (WetChem)										
Blank (EH63107-BLK1)				Prepared & Analyzed: 08/31/06						
Total Alkalinity	ND	2.00	mg/L							
LCS (EH63107-BS1)				Prepared & Analyzed: 08/31/06						
Bicarbonate Alkalinity	186	2.00	mg/L	200		93.0	85-115			
Duplicate (EH63107-DUP1)				Source: 6H29001-02 Prepared & Analyzed: 08/31/06						
Total Alkalinity	136	2.00	mg/L		140			2.90	20	
Reference (EH63107-SRM1)				Prepared & Analyzed: 08/31/06						
Total Alkalinity	252		mg/L	250		101	90-110			
Batch EH63108 - General Preparation (WetChem)										
Blank (EH63108-BLK1)				Prepared & Analyzed: 08/31/06						
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	"							
LCS (EH63108-BS1)				Prepared & Analyzed: 08/31/06						
Sulfate	10.6	0.500	mg/L	10.0		106	80-120			
Chloride	10.7	0.500	"	10.0		107	80-120			
Calibration Check (EH63108-CCV1)				Prepared & Analyzed: 08/31/06						
Sulfate	11.0		mg/L	10.0		110	80-120			
Chloride	10.8		"	10.0		108	80-120			
Duplicate (EH63108-DUP1)				Source: 6H31002-01 Prepared & Analyzed: 08/31/06						
Chloride	4150	100	mg/L		4180			0.720	20	
Sulfate	ND	100	"		ND				20	

Environmental Lab of Texas

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

Project: EME I-1 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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 EH63108 - General Preparation (WetChem)										
Duplicate (EH63108-DUP2)		Source: 6H31006-02			Prepared & Analyzed: 08/31/06					
Chloride	386	12.5	mg/L		386			0.00	20	
Sulfate	516	12.5	"		515			0.194	20	
Matrix Spike (EH63108-MS1)		Source: 6H31002-01			Prepared & Analyzed: 08/31/06					
Sulfate	2000	100	mg/L	2000	ND	100	80-120			
Chloride	6290	100	"	2000	4180	106	80-120			
Matrix Spike (EH63108-MS2)		Source: 6H31006-02			Prepared & Analyzed: 08/31/06					
Sulfate	777	12.5	mg/L	250	515	105	80-120			
Chloride	654	12.5	"	250	386	107	80-120			
Batch EI60503 - Filtration Preparation										
Blank (EI60503-BLK1)		Prepared: 08/30/06 Analyzed: 09/05/06								
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EI60503-DUP1)		Source: 6H30007-01			Prepared: 08/30/06 Analyzed: 09/05/06					
Total Dissolved Solids	2770	10.0	mg/L		2820			1.79	5	
Duplicate (EI60503-DUP2)		Source: 6H31005-04			Prepared: 08/31/06 Analyzed: 09/05/06					
Total Dissolved Solids	3360	10.0	mg/L		3400			1.18	5	

Environmental Lab of Texas

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

Project: EME I-1 SWD
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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH63111 - 6010B/No Digestion										
Blank (EH63111-BLK1)				Prepared & Analyzed: 08/31/06						
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	"							
Calibration Check (EH63111-CCV1)				Prepared & Analyzed: 08/31/06						
Calcium	2.23		mg/L	2.00		112	85-115			
Magnesium	2.25		"	2.00		112	85-115			
Potassium	1.72		"	2.00		86.0	85-115			
Sodium	1.83		"	2.00		91.5	85-115			
Duplicate (EH63111-DUP1)				Source: 6H30007-01		Prepared & Analyzed: 08/31/06				
Calcium	11.8	0.810	mg/L		12.5			5.76	20	
Magnesium	5.41	0.360	"		4.96			8.68	20	
Potassium	6.31	0.600	"		6.38			1.10	20	
Sodium	908	10.8	"		857			5.78	20	

Environmental Lab of Texas

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

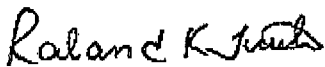
Project: EME I-1 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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:



Date:

9/6/2006

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

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, 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

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112800 West 1-20 East
Odessa, Texas 78765
Phone: 432-553-1870
Fax: 432-553-1713

Company Name RICE Operating Company

Company Address: 122 W. Taylor Street

City/State/Zip: Hobbs, New Mexico 88240

Telephone No: (505) 393-9174

Fax No: (505) 397-1474

Sampler Signature: Rozanne Johnson (505) 631-9310

Email: rozanne@valomet.com

Project Name:

Project Number:

Project Log:

PO Number:

GRAS 1-1 Film

T20S-R36E-Sec1T, Lea County NM

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

[illegible]

Special Instructions:

PLEASE Email RESULTS TO: kpope@rcceswd.com; mfranks@rcceswd.com

lozanne@valomet.com

Sample Containers: Impact?

Labels on container:

Customer Seals: Containing 100%

Templeman's Open Kettle

Refrigerated by

Dr. John J. ...

Received by:

James Johnson

Redeemed by

Received by E. C.

Date _____

एन.ए.ए.

11/11/2016

Time

183

THE

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: File Op.
 Date/ Time: 8/31/06 10:15
 Lab ID #: 64431004
 Initials: OK

Sample Receipt Checklist

				Client Initials	
#1	Temperature of container/ cooler?	Yes	No	20 °C	
#2	Shipping container in good condition?	☒ Yes	No		
#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		
#6	Sample instructions complete of Chain of Custody?	☒ Yes	No		
#7	Chain of Custody signed when relinquished/ received?	☒ Yes	No		
#8	Chain of Custody agrees with sample label(s)?	☒ Yes	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?	☒ Yes	No		
#11	Containers supplied by ELOT?	☒ Yes	No		
#12	Samples in proper container/ bottle?	☒ Yes	No	See Below	
#13	Samples properly preserved?	☒ Yes	No	See Below	
#14	Sample bottles intact?	☒ Yes	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?	☒ Yes	No	See Below	
#19	VOC samples have zero headspace?	☒ Yes	No	Not Applicable	

Variance Documentation

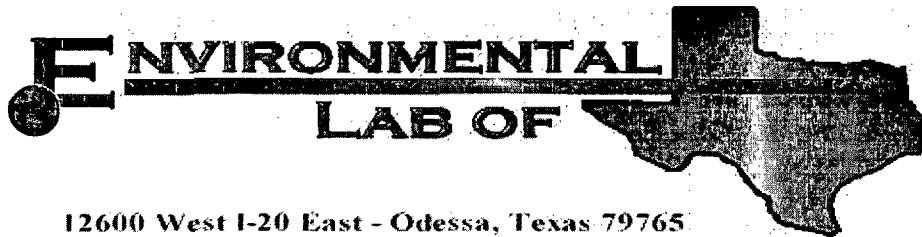
Contact: _____ Contacted by: _____ Date/ Time: _____

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



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: EME I-1 SWD

Project Number: None Given

Location: T20S-R36E-Sec.11, Lea County, NM

Lab Order Number: 6L01007

Report Date: 12/08/06

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

Project: EME I-1 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6L01007-01	Water	11/27/06 10:15	12-01-2006 12:50
Monitor Well #2	6L01007-02	Water	11/27/06 11:30	12-01-2006 12:50
Monitor Well #3	6L01007-03	Water	11/27/06 09:10	12-01-2006 12:50

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

Project: EME I-1 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6L01007-01) Water									
Benzene	I [0.000581]	0.00100	mg/L	1	EL60103	12/01/06	12/04/06	EPA 8021B	
Toluene	I [0.000684]	0.00100	"	"	"	"	"	"	
Ethylbenzene	I [0.000580]	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		116 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.8 %	80-120		"	"	"	"	
Monitor Well #2 (6L01007-02) Water									
Benzene	0.00180	0.00100	mg/L	1	EL60103	12/01/06	12/04/06	EPA 8021B	
Toluene	0.00125	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.00306	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00187	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		100 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		118 %	80-120		"	"	"	"	
Monitor Well #3 (6L01007-03) Water									
Benzene	ND	0.00100	mg/L	1	EL60103	12/01/06	12/04/06	EPA 8021B	
Toluene	I [0.000621]	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		81.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.2 %	80-120		"	"	"	"	

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

Project: EME I-1 SWD
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	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6L01007-01) Water									
Total Alkalinity	376	2.00	mg/L	1	EL60408	12/05/06	12/05/06	EPA 310.1M	
Chloride	2440	50.0	"	100	EL60409	12/04/06	12/04/06	EPA 300.0	
Total Dissolved Solids	4240	10.0	"	1	EL60406	12/04/06	12/05/06	EPA 160.1	
Sulfate	86.2	50.0	"	100	EL60409	12/04/06	12/04/06	EPA 300.0	
Monitor Well #2 (6L01007-02) Water									
Total Alkalinity	422	2.00	mg/L	1	EL60408	12/05/06	12/05/06	EPA 310.1M	
Chloride	3540	50.0	"	100	EL60409	12/04/06	12/04/06	EPA 300.0	
Total Dissolved Solids	7220	10.0	"	1	EL60406	12/04/06	12/05/06	EPA 160.1	
Sulfate	83.0	50.0	"	100	EL60409	12/04/06	12/04/06	EPA 300.0	
Monitor Well #3 (6L01007-03) Water									
Total Alkalinity	384	2.00	mg/L	1	EL60408	12/05/06	12/05/06	EPA 310.1M	
Chloride	2850	50.0	"	100	EL60409	12/04/06	12/04/06	EPA 300.0	
Total Dissolved Solids	4990	10.0	"	1	EL60406	12/04/06	12/05/06	EPA 160.1	
Sulfate	124	50.0	"	100	EL60409	12/04/06	12/04/06	EPA 300.0	

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

Project: EME I-1 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6L01007-01) Water									
Calcium	460	4.05	mg/L	50	EL60403	12/04/06	12/04/06	EPA 6010B	
Magnesium	227	1.80	"	"	"	"	"	"	
Potassium	18.6	0.600	"	10	"	"	"	"	
Sodium	922	10.8	"	250	"	"	"	"	
Monitor Well #2 (6L01007-02) Water									
Calcium	633	8.10	mg/L	100	EL60403	12/04/06	12/04/06	EPA 6010B	
Magnesium	298	3.60	"	"	"	"	"	"	
Potassium	25.5	0.600	"	10	"	"	"	"	
Sodium	1470	110	"	2550	"	"	"	"	
Monitor Well #3 (6L01007-03) Water									
Calcium	506	4.05	mg/L	50	EL60403	12/04/06	12/04/06	EPA 6010B	
Magnesium	218	1.80	"	"	"	"	"	"	
Potassium	23.3	0.600	"	10	"	"	"	"	
Sodium	1270	10.8	"	250	"	"	"	"	

Environmental Lab of Texas

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.

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

Project: EME I-1 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch EL60103 - EPA 5030C (GC)

Blank (EL60103-BLK1)

Prepared: 12/01/06 Analyzed: 12/04/06

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	47.9		ug/l	40.0		120	80-120		
Surrogate: 4-Bromofluorobenzene	44.8		"	40.0		112	80-120		

LCS (EL60103-BS1)

Prepared: 12/01/06 Analyzed: 12/05/06

Benzene	0.0458	0.00100	mg/L	0.0500		91.6	80-120		
Toluene	0.0442	0.00100	"	0.0500		88.4	80-120		
Ethylbenzene	0.0497	0.00100	"	0.0500		99.4	80-120		
Xylene (p/m)	0.0860	0.00100	"	0.100		86.0	80-120		
Xylene (o)	0.0419	0.00100	"	0.0500		83.8	80-120		
Surrogate: a,a,a-Trifluorotoluene	39.8		ug/l	40.0		99.5	80-120		
Surrogate: 4-Bromofluorobenzene	39.2		"	40.0		98.0	80-120		

Calibration Check (EL60103-CCV1)

Prepared: 12/01/06 Analyzed: 12/05/06

Benzene	44.9		ug/l	50.0		89.8	80-120		
Toluene	43.7		"	50.0		87.4	80-120		
Ethylbenzene	44.2		"	50.0		88.4	80-120		
Xylene (p/m)	85.4		"	100		85.4	80-120		
Xylene (o)	43.4		"	50.0		86.8	80-120		
Surrogate: a,a,a-Trifluorotoluene	41.7		"	40.0		104	80-120		
Surrogate: 4-Bromofluorobenzene	34.0		"	40.0		85.0	80-120		

Matrix Spike (EL60103-MS1)

Source: 6L01009-05

Prepared: 12/01/06 Analyzed: 12/05/06

Benzene	0.0440	0.00100	mg/L	0.0500	ND	88.0	80-120		
Toluene	0.0425	0.00100	"	0.0500	ND	85.0	80-120		
Ethylbenzene	0.0502	0.00100	"	0.0500	ND	100	80-120		
Xylene (p/m)	0.0849	0.00100	"	0.100	ND	84.9	80-120		
Xylene (o)	0.0408	0.00100	"	0.0500	ND	81.6	80-120		
Surrogate: a,a,a-Trifluorotoluene	39.4		ug/l	40.0		98.5	80-120		
Surrogate: 4-Bromofluorobenzene	35.9		"	40.0		89.8	80-120		

Environmental Lab of Texas

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Page 5 of 10

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

Project: EME I-1 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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 EL60103 - EPA 5030C (GC)

Matrix Spike Dup (EL60103-MSD1)

Source: 6L01009-05

Prepared: 12/01/06 Analyzed: 12/04/06

Benzene	0.0502	0.00100	mg/L	0.0500	ND	100	80-120	12.8	20	
Toluene	0.0509	0.00100	"	0.0500	ND	102	80-120	18.2	20	
Ethylbenzene	0.0569	0.00100	"	0.0500	ND	114	80-120	13.1	20	
Xylene (p/m)	0.0980	0.00100	"	0.100	ND	98.0	80-120	14.3	20	
Xylene (o)	0.0408	0.00100	"	0.0500	ND	81.6	80-120	0.00	20	
Surrogate: a,a,a-Trifluorotoluene	47.1		ug/l	40.0		118	80-120			
Surrogate: 4-Bromofluorobenzene	43.2		"	40.0		108	80-120			

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

Project: EME I-1 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch EL60406 - Filtration Preparation									
Blank (EL60406-BLK1)				Prepared: 12/04/06 Analyzed: 12/05/06					
Total Dissolved Solids	ND	10.0	mg/L						
Duplicate (EL60406-DUP1)				Source: 6K30013-01 Prepared: 12/04/06 Analyzed: 12/05/06					
Total Dissolved Solids	2260	10.0	mg/L		2280		0.881	20	
Duplicate (EL60406-DUP2)				Source: 6L01009-03 Prepared: 12/04/06 Analyzed: 12/05/06					
Total Dissolved Solids	1640	10.0	mg/L		1790		8.75	20	
Batch EL60408 - General Preparation (WetChem)									
Blank (EL60408-BLK1)				Prepared & Analyzed: 12/05/06					
Total Alkalinity	ND	2.00	mg/L						
LCS (EL60408-BS1)				Prepared & Analyzed: 12/05/06					
Bicarbonate Alkalinity	192	2.00	mg/L	200		96.0	85-115		
Duplicate (EL60408-DUP1)				Source: 6L01007-01 Prepared & Analyzed: 12/05/06					
Total Alkalinity	378	2.00	mg/L		376		0.531	20	
Reference (EL60408-SRM1)				Prepared & Analyzed: 12/05/06					
Alkalinity	246		mg/L	250		98.4	90-110		
Batch EL60409 - General Preparation (WetChem)									
Blank (EL60409-BLK1)				Prepared & Analyzed: 12/04/06					
Chloride	ND	0.500	mg/L						
Sulfate	ND	0.500	"						

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

Project: EME I-1 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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 EL60409 - General Preparation (WetChem)										
LCS (EL60409-BS1)				Prepared & Analyzed: 12/04/06						
Sulfate	10.5	0.500	mg/L	10.0		105	80-120			
Chloride	10.1	0.500	"	10.0		101	80-120			
Calibration Check (EL60409-CCV1)				Prepared & Analyzed: 12/04/06						
Sulfate	9.69		mg/L	10.0		96.9	80-120			
Chloride	10.8		"	10.0		108	80-120			
Duplicate (EL60409-DUP1)				Source: 6L01007-01		Prepared & Analyzed: 12/04/06				
Sulfate	85.1	50.0	mg/L		86.2			1.28	20	
Chloride	2480	50.0	"		2440			1.63	20	
Duplicate (EL60409-DUP2)				Source: 6L01009-04		Prepared & Analyzed: 12/04/06				
Sulfate	680	25.0	mg/L		695			2.18	20	
Chloride	825	25.0	"		838			1.56	20	
Matrix Spike (EL60409-MS1)				Source: 6L01007-01		Prepared & Analyzed: 12/04/06				
Sulfate	1030	50.0	mg/L	1000	86.2	94.4	80-120			
Chloride	3640	50.0	"	1000	2440	120	80-120			
Matrix Spike (EL60409-MS2)				Source: 6L01009-04		Prepared & Analyzed: 12/04/06				
Sulfate	1170	25.0	mg/L	500	695	95.0	80-120			
Chloride	1400	25.0	"	500	838	112	80-120			

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

Project: EME I-1 SWD
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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL60403 - 6010B/No Digestion

Blank (EL60403-BLK1)

Prepared & Analyzed: 12/04/06

Calcium	ND	0.0810	mg/L
Magnesium	ND	0.0360	"
Potassium	ND	0.0600	"
Sodium	ND	0.0430	"

Calibration Check (EL60403-CCV1)

Prepared & Analyzed: 12/04/06

Calcium	2.10		mg/L	2.00	105	85-115
Magnesium	2.13		"	2.00	106	85-115
Potassium	1.76		"	2.00	88.0	85-115
Sodium	2.03		"	2.00	102	85-115

Duplicate (EL60403-DUP1)

Source: 6L01007-01

Prepared & Analyzed: 12/04/06

Calcium	446	4.05	mg/L	460	3.09	20
Magnesium	213	1.80	"	227	6.36	20
Potassium	20.7	0.600	"	18.6	10.7	20
Sodium	1020	10.8	"	922	10.1	20

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

Project: EME I-1 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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:

12/8/2006

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

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
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: REC Op.
Date/ Time: 12/11/06 12:50
Lab ID #: 6L01007
Initials: ck

Sample Receipt Checklist

				Client Initials	
#1	Temperature of container/ cooler?	Yes	No	21.0 °C	
#2	Shipping container in good condition?	Yes	No		
#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		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	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?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	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?	Yes	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	<u>Not Applicable</u>	
#20	VOC samples have zero headspace?	Yes	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