

1R - 427-204

REPORTS

DATE:

2006

EME Jct F-11

IR-427-204

RECEIVED

APR - 4 2007

Environmental Bureau
Oil Conservation Division

Final Report

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
EME	jct. F-11	F	11	21S	36E	Lea	Length	Width	Depth
							no box--jct. eliminated		

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

Depth to Groundwater 200 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 6/17/2005 Date Completed 4/13/2006 NMOCD Witness no

Soil Excavated 45 cubic yards Excavation Length 10 Width 10 Depth 12 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 4/13/2006 Sample Depth 30 ft

TPH, BTEX, and chloride laboratory test results completed by using an approved laboratory and testing procedures pursuant to NMOCD guidelines.

Sample Location	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Total Xylenes mg/kg	Total Hydrocarbon (C6-C35) mg/kg	Chlorides mg/kg
SOIL BORE @ 30 ft	<0.025	<0.025	<0.025	<0.025	<10.0	179

General Description of Remedial Action: This junction was eliminated with the pipeline upgrade/replacement program. After the box lumber was removed, the site was delineated using a backhoe to collect soil samples at regular intervals. Chloride field tests and OVMs were performed on each of the samples throughout the 10 x 10 x 12-ft-deep excavation. Although OVM concentrations were very low, chloride concentrations increased with depth. The excavated soil was blended on site (407 ppm Cl-) and then backfilled into the excavation and contoured to the surrounding terrain. To further investigate the depth of chloride penetration, a soil boring was initiated on 4/13/2006. The soil bore was advanced to a depth of 30 ft BGS when a trend of very low chloride concentrations could be confirmed, indicating non-saturated historical vadose conditions. The 30-ft sample was analyzed at a laboratory to confirm the field tests. BTEX and TPH were not present in detectable concentrations. The disturbed surface has begun to return to productive capacity.

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
10 x 10 x 12 excavation		
4-wall comp.	n/a	561
bottom comp.	12	869
backfill	n/a	407

Soil Bore	20	395
	25	414
	30	179

enclosures: photos, lab results, soil bore data, chloride graph

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SITE SUPERVISOR Melanie Franks SIGNATURE Melanie Franks COMPANY RICE Operating Company

REPORT ASSEMBLED BY Kristin Farris Pope SIGNATURE Kristin Farris Pope
DATE 9/12/2006 TITLE Project Scientist

EME jct. F-11

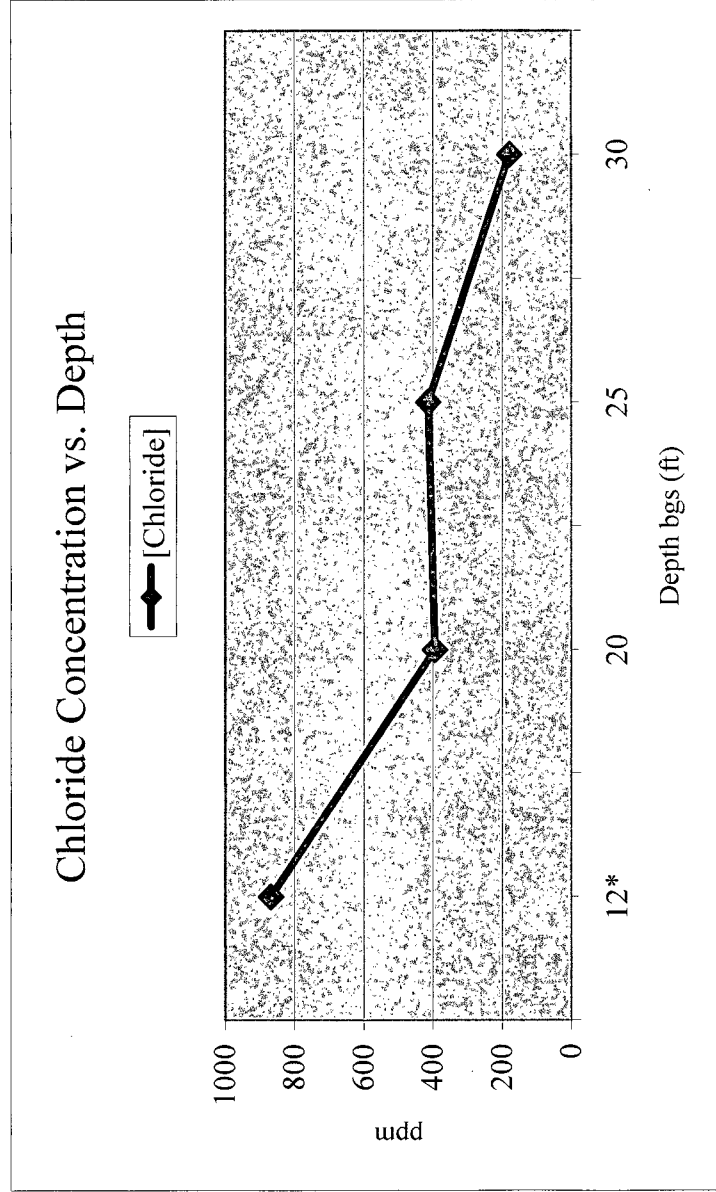
unit 'F', Sec. 11, T21S, R36E

Vertical Delineation at Source

Depth bgs (ft)	[Cl] ppm
12*	869
20	395
25	414
30	179

Groundwater = 200 ft

* bottom composite sample from
10 x 10 x 12-ft deep excavation



System: EME Location: Jct. F-11 GW: 200' Landowner: State Lease to Dasco Cattle

Landowner: State Lease to Dasco Cattle

UL/ F	Sec. 11	T 21S	R 36E	Nad 27 Lat. & Long.	32°29.800	103°14.160
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103*14.160

[illegible]

Notes: 6' southwest of stake in ground from RRR crew. Sent 30' sample for lab confirmation. Did not run PID on these samples per KFP.

Signature

Date _____

HARRISON & COOPER, INC.

Drilling & Pump Professionals

7414 85th Street, Lubbock, Texas 79424-4951

P.O. Box 96, Wolfforth, Texas 79382-0096

Ph: (806) 866-4026

Fax: (806) 866-4044

Email: harrisoncooperinc@msn.com

Client RICE Project No. _____
Well No. BORE #1 Site EME SET #11 Date Installed 4-13-06
Formation of Completion _____
Personnel SAM MARTINEZ Driller KEN COOPER

COPY

Hole Diameter (inches) 5"

Well Casing Diameter (inches) _____

Well Casing Type _____

Ground Surface

Backfill Type _____
_____ bgs to _____ bgs

Seal Type BENT./CEMT.

Seal Length (feet) 0 bgs to 30 bgs

Filter Pack Type _____

Filter Pack Length (feet) _____
_____ bgs to _____ bgs

Slot Opening (inches) _____

Open or Slotted Length (feet) _____
_____ bgs to _____ bgs

Centralizers (feet)
_____ bgs
_____ bgs
_____ bgs
_____ bgs

Casing Length (feet) _____
_____ bgs to _____ bgs

End Cap

Total Depth (feet) 30 bgs

Comments PEA BORE HOLE WITH BENTONITE / CEMENT

EME jct. F-11



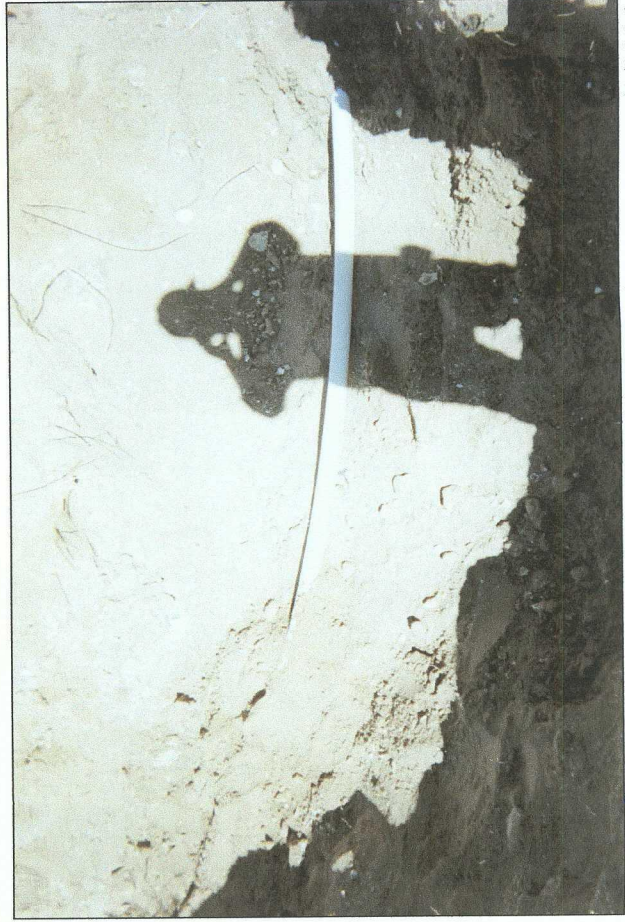
undisturbed junction box

8/25/2004



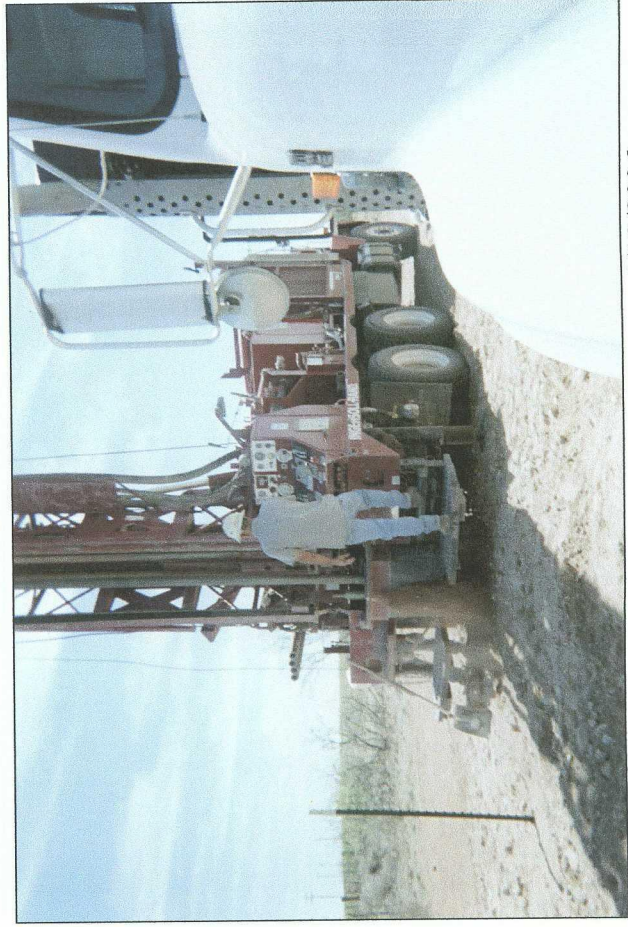
10 x 10 x 12-ft-deep excavation

6/21/2205



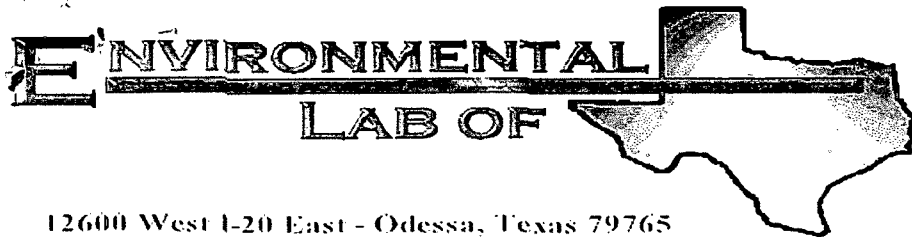
former junction site; re-plumbed straight through

11/1/2004



soil bore

4/13/2006



Soil Bore
@ 30 ft

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

COPY

Project: EME F-11

Project Number: None Given

Location: None Given

Lab Order Number: 6D14011

Report Date: 04/21/06

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

Project: EME F-11
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
04/21/06 15:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B1@ 30' bgs	6D14011-01	Soil	04/13/06 14:41	04/14/06 10:15

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

Project: EME F-11
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
04/21/06 15:20

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B1@ 30' bgs (6D14011-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	ED62007	04/20/06	04/20/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		92.2 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		82.2 %	80-120		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	ED61418	04/14/06	04/19/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		106 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		95.6 %	70-130		"	"	"	"	

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

Project: EME F-11
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
04/21/06 15:20

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B1@ 30' bgs (6D14011-01) Soil									
Chloride	179	10.0	mg/kg	20	ED62005	04/18/06	04/18/06	EPA 300.0	
% Moisture	4.6	0.1	%	1	ED61704	04/14/06	04/17/06	% calculation	

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

Project: EME F-11
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
04/21/06 15:20

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 ED61418 - Solvent Extraction (GC)

Blank (ED61418-BLK1)

Prepared & Analyzed: 04/14/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	45.7		mg/kg	50.0		91.4	70-130			
Surrogate: 1-Chlorooctadecane	46.3		"	50.0		92.6	70-130			

LCS (ED61418-BS1)

Prepared & Analyzed: 04/14/06

Carbon Ranges C6-C12	477	10.0	mg/kg wet	500		95.4	75-125			
Carbon Ranges C12-C28	491	10.0	"	500		98.2	75-125			
Total Hydrocarbon C6-C35	968	10.0	"	1000		96.8	75-125			
Surrogate: 1-Chlorooctane	51.8		mg/kg	50.0		104	70-130			
Surrogate: 1-Chlorooctadecane	45.2		"	50.0		90.4	70-130			

Calibration Check (ED61418-CCV1)

Prepared: 04/14/06 Analyzed: 04/15/06

Carbon Ranges C6-C12	266		mg/kg	250		106	80-120			
Carbon Ranges C12-C28	294		"	250		118	80-120			
Total Hydrocarbon C6-C35	560		"	500		112	80-120			
Surrogate: 1-Chlorooctane	45.6		"	50.0		91.2	70-130			
Surrogate: 1-Chlorooctadecane	38.7		"	50.0		77.4	70-130			

Matrix Spike (ED61418-MS1)

Source: 6D14012-01

Prepared & Analyzed: 04/14/06

Carbon Ranges C6-C12	509	10.0	mg/kg dry	536	ND	95.0	75-125			
Carbon Ranges C12-C28	510	10.0	"	536	ND	95.1	75-125			
Total Hydrocarbon C6-C35	1020	10.0	"	1070	ND	95.3	75-125			
Surrogate: 1-Chlorooctane	56.1		mg/kg	50.0		112	70-130			
Surrogate: 1-Chlorooctadecane	47.4		"	50.0		94.8	70-130			

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240	Project: EME F-11 Project Number: None Given Project Manager: Kristin Farris-Pope	Fax: (505) 397-1471 Reported: 04/21/06 15:20
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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 ED61418 - Solvent Extraction (GC)

Matrix Spike Dup (ED61418-MSD1)		Source: 6D14012-01		Prepared & Analyzed: 04/14/06						
Carbon Ranges C6-C12	518	10.0	mg/kg dry	536	ND	96.6	75-125	1.75	20	
Carbon Ranges C12-C28	531	10.0	"	536	ND	99.1	75-125	4.03	20	
Total Hydrocarbon C6-C35	1050	10.0	"	1070	ND	98.1	75-125	2.90	20	
Surrogate: 1-Chlorooctane	57.0		mg/kg	50.0		114	70-130			
Surrogate: 1-Chlorooctadecane	47.9		"	50.0		95.8	70-130			

Batch ED62007 - EPA 5030C (GC)

Blank (ED62007-BLK1)		Prepared & Analyzed: 04/20/06								
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	39.7		ug/kg	40.0		99.2	80-120			
Surrogate: 4-Bromofluorobenzene	35.7		"	40.0		89.2	80-120			

LCS (ED62007-BS1)

		Prepared: 04/20/06 Analyzed: 04/21/06								
Benzene	1.24	0.0250	mg/kg wet	1.25		99.2	80-120			
Toluene	1.32	0.0250	"	1.25		106	80-120			
Ethylbenzene	1.34	0.0250	"	1.25		107	80-120			
Xylene (p/m)	2.99	0.0250	"	2.50		120	80-120			
Xylene (o)	1.49	0.0250	"	1.25		119	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.8		ug/kg	40.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	39.5		"	40.0		98.8	80-120			

Calibration Check (ED62007-CCV1)

		Prepared: 04/20/06 Analyzed: 04/21/06								
Benzene	58.4		ug/kg	50.0		117	80-120			
Toluene	55.3		"	50.0		111	80-120			
Ethylbenzene	58.5		"	50.0		117	80-120			
Xylene (p/m)	117		"	100		117	80-120			
Xylene (o)	58.9		"	50.0		118	80-120			
Surrogate: a,a,a-Trifluorotoluene	42.7		"	40.0		107	80-120			
Surrogate: 4-Bromofluorobenzene	45.1		"	40.0		113	80-120			

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

Project: EME F-11
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
04/21/06 15:20

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 ED62007 - EPA 5030C (GC)

Matrix Spike (ED62007-MS1)

Source: 6D14008-17

Prepared & Analyzed: 04/20/06

Benzene	1.27	0.0250	mg/kg dry	1.36	ND	93.4	80-120			
Toluene	1.32	0.0250	"	1.36	ND	97.1	80-120			
Ethylbenzene	1.26	0.0250	"	1.36	ND	92.6	80-120			
Xylene (p/m)	2.95	0.0250	"	2.73	ND	108	80-120			
Xylene (o)	1.36	0.0250	"	1.36	ND	100	80-120			
Surrogate: a,a,a-Trifluorotoluene	40.3		ug/kg	40.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	32.8		"	40.0		82.0	80-120			

Matrix Spike Dup (ED62007-MSD1)

Source: 6D14008-17

Prepared & Analyzed: 04/20/06

Benzene	1.35	0.0250	mg/kg dry	1.36	ND	99.3	80-120	6.12	20	
Toluene	1.46	0.0250	"	1.36	ND	107	80-120	9.70	20	
Ethylbenzene	1.48	0.0250	"	1.36	ND	109	80-120	16.3	20	
Xylene (p/m)	3.27	0.0250	"	2.73	ND	120	80-120	10.5	20	
Xylene (o)	1.58	0.0250	"	1.36	ND	116	80-120	14.8	20	
Surrogate: a,a,a-Trifluorotoluene	40.1		ug/kg	40.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	42.1		"	40.0		105	80-120			

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240	Project: EME F-11 Project Number: None Given Project Manager: Kristin Farris-Pope	Fax: (505) 397-1471 Reported: 04/21/06 15:20
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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 ED61704 - General Preparation (Prep)

Blank (ED61704-BLK1)		Prepared: 04/14/06 Analyzed: 04/17/06								
% Solids	100		%							
Duplicate (ED61704-DUP1)		Source: 6D13017-01		Prepared: 04/14/06 Analyzed: 04/17/06						
% Solids	96.1		%		92.4			3.93	20	
Duplicate (ED61704-DUP2)		Source: 6D14008-03		Prepared: 04/14/06 Analyzed: 04/17/06						
% Solids	95.6		%		95.7			0.105	20	

Batch ED62005 - Water Extraction

Blank (ED62005-BLK1)		Prepared & Analyzed: 04/18/06								
Chloride	ND	0.500	mg/kg							
LCS (ED62005-BS1)		Prepared & Analyzed: 04/18/06								
Chloride	9.08		mg/L	10.0	90.8		80-120			
Calibration Check (ED62005-CCV1)		Prepared & Analyzed: 04/18/06								
Chloride	8.90		mg/L	10.0	89.0		80-120			
Duplicate (ED62005-DUP1)		Source: 6D14016-01		Prepared & Analyzed: 04/18/06						
Chloride	1960	25.0	mg/kg		1930			1.54	20	

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240	Project: EME F-11 Project Number: None Given Project Manager: Kristin Farris-Pope	Fax: (505) 397-1471 Reported: 04/21/06 15:20
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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: 4/21/2006

Raland K. Tuttle, Lab Manager	Jeanne Mc Murrey, Inorg. Tech Director
Celey D. Keene, Lab Director, Org. Tech Director	LaTasha Cornish, Chemist
Peggy Allen, QA Officer	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
Variance / Corrective Action Report – Sample Log-In

ent: Rece OP,
 te/Time: 4/14/06 10:15
 der #: 6014011
 tials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	1.5	C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	No		
Study Seals intact on shipping container/cooler?	<input checked="" type="checkbox"/> Yes	No	Not present	
Study Seals intact on sample bottles?	<input checked="" type="checkbox"/> Yes	No	Not present	
Chain of custody present?	<input checked="" type="checkbox"/> Yes	No		
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No		
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/> Yes	No		
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/> Yes	No		
Container labels legible and intact?	<input checked="" type="checkbox"/> Yes	No		
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	No		
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	No		
Samples properly preserved?	<input checked="" type="checkbox"/> Yes	No		
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	No		
Reservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No		
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No		
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	No		
1 samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	No		
OC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	No	Not Applicable	

Other observations:

Variance Documentation:

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

Corrective Action Taken:
