1R - 425 - 3

REPORTS

DATE:

MARCH 17, 2005

DISCLOSURE

REPORT

RICE OPERATING COMPANY
JUNCTION BOX **DISCLOSURE** REPORT

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
Vacuum	K-35-1 boot	K	35	17S	35E	Lea	no box--eliminated		

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

Depth to Groundwater 54 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 9/29/2004 Date Completed 10/25/2004 NMOCD Witness no

Soil Excavated 400 cubic yards Excavation Length 30 Width 30 Depth 12 feet

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

FINAL ANALYTICAL RESULTS: **Sample Date** 10/12/2004 **Sample Depth** 12 ft

Procure 5-point composite sample of bottom and 4-point composite sample of excavation sidewalls. TPH and chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.

Sample Location	PID ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
4-WALL COMP.	1.1	<10.0	63.5	10400
BOTTOM COMP.	9.6	12.9	90.4	9190
REMED. BACKFILL	6.0	25	435	9860

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
vertical at junction box	4	479
	5	779
	6	749
	7	869
	8	2489
	9	4978
	10	5587
	11	5338
	12	6807
20 ft North of junction	4	5248
	5	1229
	6	2369
	7	9327
	8	14605
	9	13645
	10	10826
	11	12206
	12	12026
4-wall comp.	n/a	9267
bottom comp.	12	9926
backfill comp.	n/a	9177

General Description of Remedial Action: This junction box contained a boot. The junction was eliminated and the box was removed. The site was remediated using a backhoe while PID and chloride field tests were conducted at regular intervals. Although PID readings were relatively low, the soils exhibited physical signs of slight hydrocarbon impact. Chloride field tests revealed concentrations that did not relent with depth or breadth throughout the 30 x 30 x 12 ft deep excavation. The excavated soil was blended on site and then backfilled into the excavation to 4 ft BGS. At 4 ft, a compacted clay barrier was installed to inhibit further downward migration of remaining chloride impact. The remaining spoils were backfilled on top of the clay and contoured to the surrounding surface. Remaining hydrocarbon is expected to naturally attenuate. An identification plate was placed on the surface of the backfilled site to mark the former location of the junction box and the clay below. NMOCD was notified of potential groundwater impact at this site on 11/29/2004.

enclosures: chloride graphs, photos, lab results, PID field screenings, cross-section, clay test

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

SITE SUPERVISOR Rob Elam SIGNATURE not available COMPANY Curt's Environmental--Odessa, TX

REPORT ASSEMBLED BY Kristin Farris Pope SIGNATURE Kristin Farris Pope

DATE 3/17/2005 TITLE Project Scientist

**** This site is a "DISCLOSURE." It will be placed on a prioritized list of similar sites for further consideration.***

Vacuum K-35-1 boot

unit 'K', sec. 35, T17S, R35S

undisturbed junction box with boot 4/9/2002

box removed after NORM decontamination 4/16/2002

30 x 30 x 12 ft deep excavation 10/12/2004

testing compacted clay barrier 10/2504

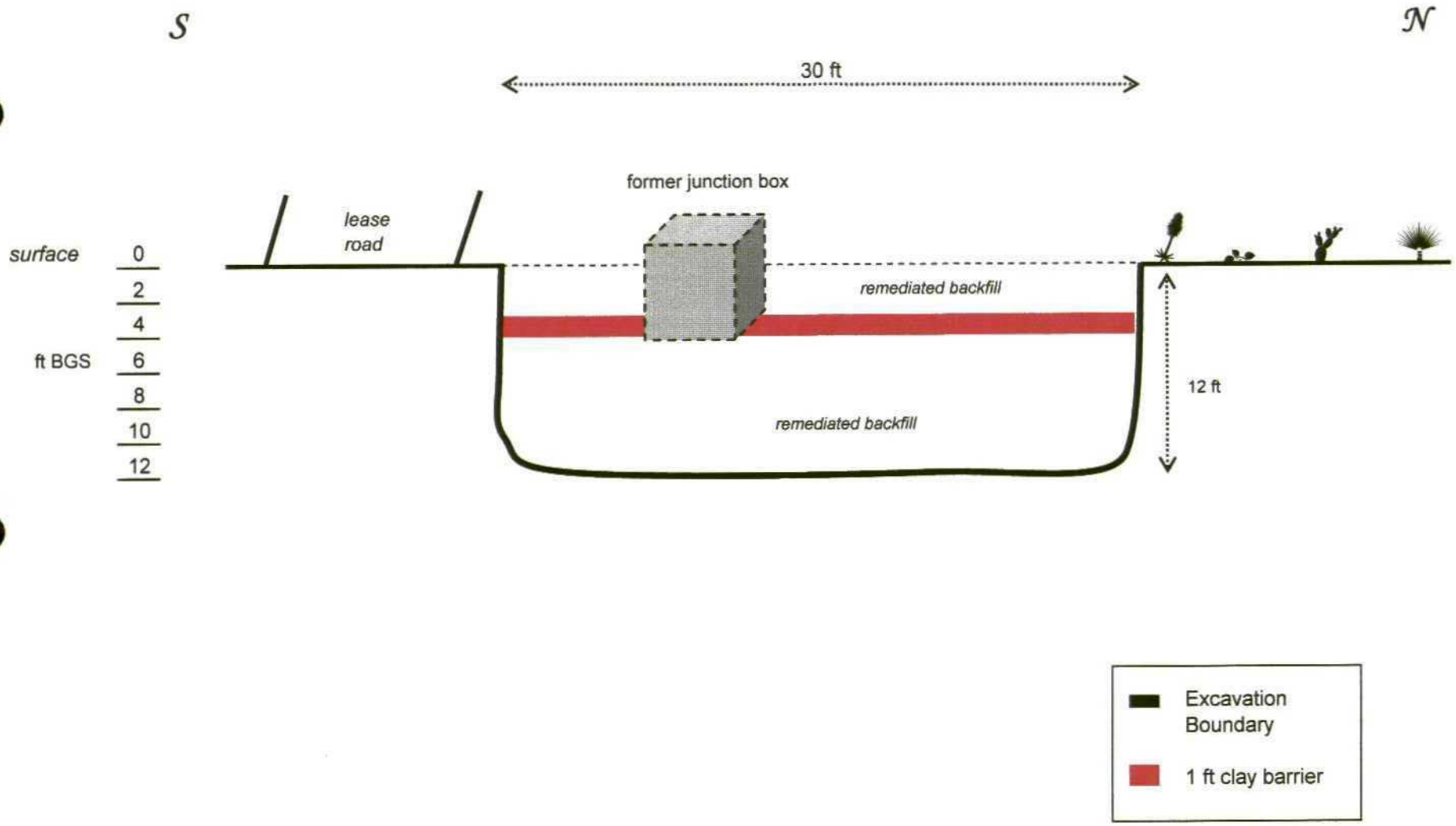
compacted clay at 4 ft BGS 10/25004

backfilled site with clay ID plate in center 10/25004

Vacuum K-35-1 boot

30 x 30 x 12 ft

Excavation Cross-Section



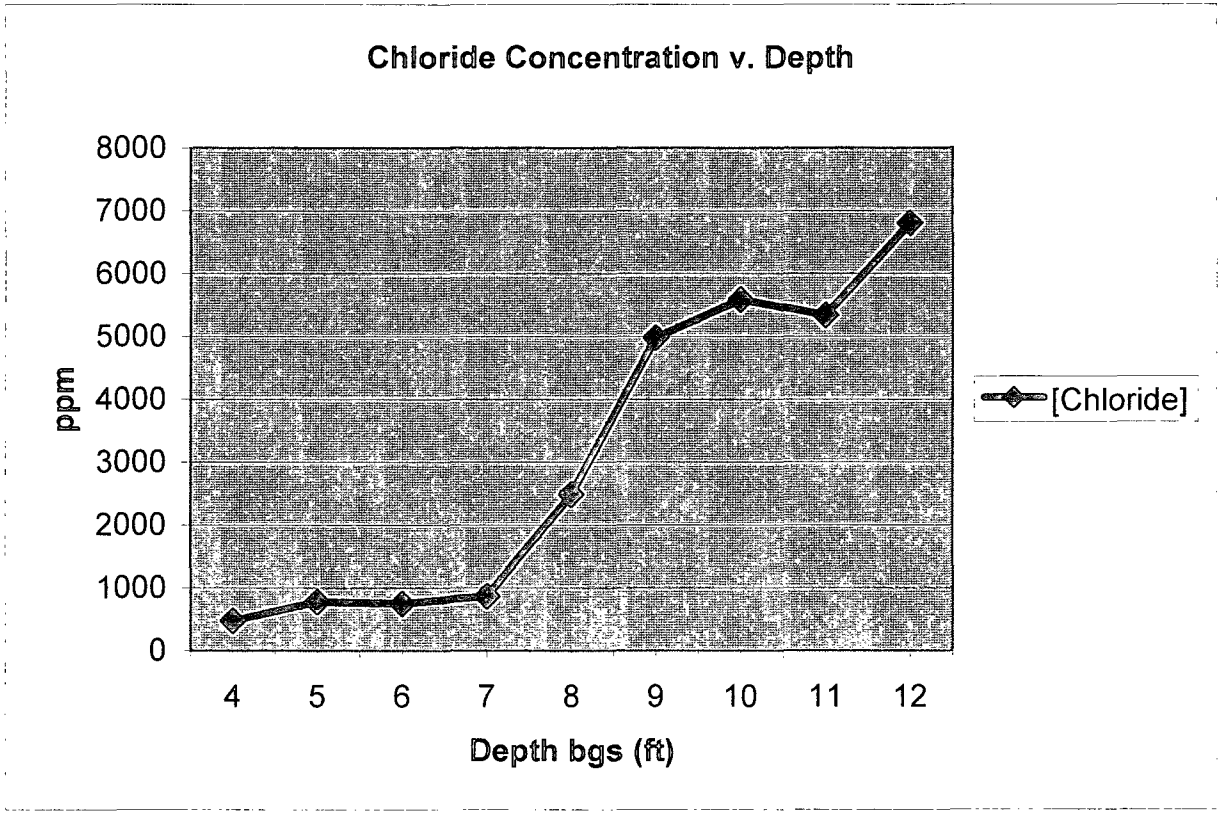
Vacuum K-35-1 boot

T17S, R35E

Vertical at junction box

Depth bgs (ft)	[Cl⁻] ppm
4	479
5	779
6	749
7	869
8	2489
9	4978
10	5587
11	5338
12	6809

Groundwater = 54 ft



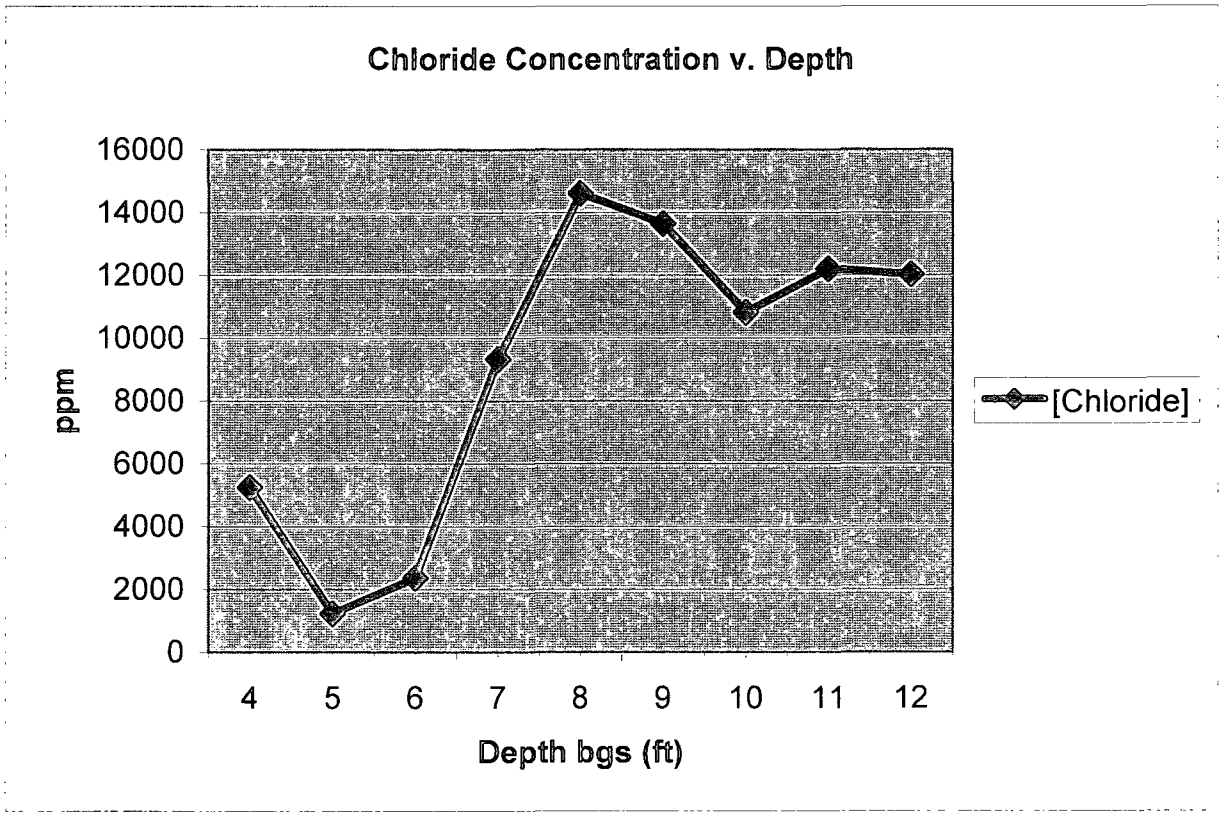
Vacuum K-35-1 boot

T17S, R35E

20 ft North of junction

Depth bgs (ft)	[Cl⁻] ppm
4	5248
5	1229
6	2369
7	9327
8	14605
9	13645
10	10826
11	12206
12	12026

Groundwater = 54 ft



ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

COPY

Analytical Report

Prepared for:

Roy Rascon

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: Vent K-35-1

Project Number: None Given

Location: None Given

Lab Order Number: 4J14004

Report Date: 10/18/04

Rice Operating Co.	Project: Vent K-35-1	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	10/18/04 17:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
12' Bottom Comp.	4J14004-01	Soil	10/12/04 11:00	10/14/04 07:00
Wall Comp.	4J14004-02	Soil	10/12/04 11:00	10/14/04 07:00
Backfill Comp.	4J14004-03	Soil	10/12/04 11:00	10/14/04 07:00

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

Rice Operating Co.	Project: Vent K-35-1	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	10/18/04 17:00

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
12' Bottom Comp. (4J14004-01) Soil									
Gasoline Range Organics C6-C12	**12.9**	10.0	mg/kg dry	1	EJ41416	10/14/04	10/15/04	EPA 8015M	
Diesel Range Organics >C12-C35	**90.4**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**103**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*105 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*119 %*	*70-130*		"	"	"	"	
Wall Comp. (4J14004-02) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ41416	10/14/04	10/15/04	EPA 8015M	
Diesel Range Organics >C12-C35	**63.5**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**63.5**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*107 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*127 %*	*70-130*		"	"	"	"	
Backfill Comp. (4J14004-03) Soil									
Gasoline Range Organics C6-C12	**25.0**	10.0	mg/kg dry	1	EJ41416	10/14/04	10/15/04	EPA 8015M	
Diesel Range Organics >C12-C35	**435**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**460**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*90.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*107 %*	*70-130*		"	"	"	"	

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

Rice Operating Co.	Project: Vent K-35-1	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	10/18/04 17:00

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
12' Bottom Comp. (4J14004-01) Soil									
Chloride	**9190**	20.0	mg/kg Wet	2	EJ41814	10/14/04	10/18/04	SW 846 9253	
% Moisture	**12.0**		%	1	EJ41503	10/14/04	10/15/04	% calculation	
Wall Comp. (4J14004-02) Soil									
Chloride	**10400**	20.0	mg/kg Wet	2	EJ41814	10/14/04	10/18/04	SW 846 9253	
% Moisture	**14.0**		%	1	EJ41503	10/14/04	10/15/04	% calculation	
Backfill Comp. (4J14004-03) Soil									
Chloride	**9860**	20.0	mg/kg Wet	2	EJ41814	10/14/04	10/18/04	SW 846 9253	
% Moisture	**13.0**		%	1	EJ41503	10/14/04	10/15/04	% calculation	

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

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 EJ41416 - Solvent Extraction (GC)										
Blank (EJ41416-BLK1)				Prepared: 10/14/04 Analyzed: 10/15/04						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*35.7*		*mg/kg*	*50.0*		*71.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*39.8*		*"*	*50.0*		*79.6*	*70-130*			
LCS (EJ41416-BS1)				Prepared: 10/14/04 Analyzed: 10/15/04						
Gasoline Range Organics C6-C12	450	10.0	mg/kg wet	500		90.0	75-125			
Diesel Range Organics >C12-C35	513	10.0	"	500		103	75-125			
Total Hydrocarbon C6-C35	963	10.0	"	1000		96.3	75-125			
Surrogate: 1-Chlorooctane	*46.7*		*mg/kg*	*50.0*		*93.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.4*		*"*	*50.0*		*86.8*	*70-130*			
Calibration Check (EJ41416-CCV1)				Prepared: 10/14/04 Analyzed: 10/15/04						
Gasoline Range Organics C6-C12	502		mg/kg	500		100	80-120			
Diesel Range Organics >C12-C35	574		"	500		115	80-120			
Total Hydrocarbon C6-C35	1080		"	1000		108	80-120			
Surrogate: 1-Chlorooctane	*51.6*		*"*	*50.0*		*103*	*70-130*			
Surrogate: 1-Chlorooctadecane	*60.1*		*"*	*50.0*		*120*	*70-130*			
Matrix Spike (EJ41416-MS1)	**Source: 4J14001-01**			Prepared: 10/14/04 Analyzed: 10/15/04						
Gasoline Range Organics C6-C12	556	10.0	mg/kg dry	575	ND	96.7	75-125			
Diesel Range Organics >C12-C35	621	10.0	"	575	ND	108	75-125			
Total Hydrocarbon C6-C35	1180	10.0	"	1150	ND	103	75-125			
Surrogate: 1-Chlorooctane	*48.0*		*mg/kg*	*50.0*		*96.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*48.2*		*"*	*50.0*		*96.4*	*70-130*			
Matrix Spike Dup (EJ41416-MSD1)	**Source: 4J14001-01**			Prepared: 10/14/04 Analyzed: 10/15/04						
Gasoline Range Organics C6-C12	530	10.0	mg/kg dry	575	ND	92.2	75-125	4.79	20	
Diesel Range Organics >C12-C35	564	10.0	"	575	ND	98.1	75-125	9.62	20	
Total Hydrocarbon C6-C35	1090	10.0	"	1150	ND	94.8	75-125	7.93	20	
Surrogate: 1-Chlorooctane	*52.1*		*mg/kg*	*50.0*		*104*	*70-130*			
Surrogate: 1-Chlorooctadecane	*50.0*		*"*	*50.0*		*100*	*70-130*			

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 EJ41503 - % Solids										
Blank (EJ41503-BLK1)				Prepared: 10/14/04 Analyzed: 10/15/04						
% Moisture	0.0		%							
Duplicate (EJ41503-DUP1)		**Source: 4J13011-01**		Prepared: 10/14/04 Analyzed: 10/15/04						
% Moisture	14.0		%		13.0			7.41	20	
Batch EJ41814 - Water Extraction										
Blank (EJ41814-BLK1)				Prepared: 10/11/04 Analyzed: 10/18/04						
Chloride	ND	20.0	mg/kg Wet							
Matrix Spike (EJ41814-MS1)		**Source: 4J08006-02**		Prepared: 10/11/04 Analyzed: 10/18/04						
Chloride	468	20.0	mg/kg Wet	500	0.00	93.6	80-120			
Matrix Spike Dup (EJ41814-MSD1)		**Source: 4J08006-02**		Prepared: 10/11/04 Analyzed: 10/18/04						
Chloride	478	20.0	mg/kg Wet	500	0.00	95.6	80-120	2.11	20	
Reference (EJ41814-SRM1)				Prepared & Analyzed: 10/18/04						
Chloride	5000		mg/kg	5000		100	80-120			

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: 10-18-04

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Biezugbe, Lab Tech.

Environmental Lab of Texas, Inc.

12600 West I 20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Roy Rascon
Company Name: RICE Operating
Company Address: 122 W. Taylor
City/State/Zip: Hobbs, NM 88240
Telephone No: (505) 393-9174
Fax No: (505) 397-1471
Sampler Signature: Rob Elam

Project Name: Vent K-35-1
Project #:
Project Loc: Vacuum
PO #:

4J14004

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers 4 oz 5 1 kss	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify)	Analyze For: TDS / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RUSH TAT (Pre-Schedule)	Standard TAT
-01	12' Bottom Comp.	10-12-04	11:00	1	✓									✓		✓			✓						
-02	Wall Comp.	10-12-04	11:00	1	✓									✓		✓			✓						
-03	Backfill Comp.	10-12-04	11:00	1	✓									✓		✓			✓						

Special Instructions:
FAX Results To EOC

Relinquished by:	Date	Time	Received by:	Date	Time
Rob Elam	10-12-04	5:00p			
Relinquished by:	Date	Time	Received by ELPT: From Drop Box	Date	Time
[illegible]	10-13-04	8:50a	Jeanne McMurry	10-14-04	0700

Sample Containers Intact? (Y) N
Temperature Upon Receipt:
Laboratory Comments:
0.5 C

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

Client: Rice Operating Co.

Date/Time: 10-14-04 @ 0800

Order #: 4J14004

Initials: JMM

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:

_____

_____

_____

_____

_____

_____

_____

_____

COPY

RICE OPERATING COMPANY

122 WEST TAYLOR
HOBBS, NEW MEXICO 88240
PHONE: (505) 393-9174 FAX: (505) 397-1471

VOC FIELD TEST REPORT FORM

MINI RAE PLUS CLASSIC PHOTOIONIZATION GAS DETECTOR

MODEL NO: PGM 761S
CALIBRATION GAS
GAS COMPOSITION: ISOBUTYLENE
AIR
LOT NO: 03-2475
EXP. DATE: 10-19-04
METER READING
ACCURACY: 100.0

SERIAL NO: ~~104412~~ 104550

100 PPM
BALANCE
FILL DATE: 4-19-04
ACCURACY: ± 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
Vacuum	Vent K-35-1	K	35	17	35

All are composite samples

	SAMPLE	PID RESULT	SAMPLE	PID RESULT
20'	North Wall	7.3		
10'	South Wall	0		
16'	East Wall	9.2		
15'	West Wall	0		
12'	Bottom	9.6		
4	Wall	1.1		
	Backfill	6.0		

I certify that I have calibrated the above instrument in accordance to the manufacture operation manual.

Signature | Title | Date 10-12-04

LABORATORY TEST REPORT
PETTIGREW & ASSOCIATES, P.A.
1110 N. GRIMES
HOBBS, NM 88240
(505) 393-9827

AASHTO R18

DEBRA P. HICKS, P.E./L.S.I.
WILLIAM M. HICKS, III, P.E./P.S.

To: Rice Operating
Attn: Carolyn Haynes
122 W. Taylor
Hobbs, NM 88240

Material: Red Clay

Test Method: ASTM: D 2922

Project: Vacuum K-35-1

Date of Test: October 25, 2004

Depth: Finished Subgrade

Test No.	Location	Dry Density % Maximum	% Moisture	Depth
SG-1	Pit - 15' E. & 10' N. of the Southwest Corner	97.8	19.8	

Control Density: 109.5
ASTM: D 698

Optimum Moisture: 16.6

Required Compaction: 95%

Lab No.: 04 11613-11614

Copies To: Rice ✓

PETTIGREW & ASSOCIATES

BY: [signature] S.E.T.