1R - 423-06

REPORTS

DATE:

4/05/2004

Justis E-1 vent

IR0423-06

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
Justis	E-1 vent	E	1	25S	37E	Lea	Moved 100 ft North		

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER Joyce Willis OTHER _____

Depth to Groundwater 89.3 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 11/3/2003 Date Completed 3/17/2004 OCD Witness No

Soil Excavated 180 cubic yards Excavation Length 20 Width 20 Depth 12 feet

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

FINAL ANALYTICAL RESULTS: **Sample Date** 11/11/2003, 3/17/2004 **Sample Depth** 12, 90 ft

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

Sample Location	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Total Xylenes mg/kg	GRO mg/kg	DRO mg/kg	Chloride mg/kg
SIDEWALLS	<0.025	0.026	0.108	0.369	268	1200	1280
BOTTOM	0.064	0.402	1.88	4.78	805	3620	904
SOIL BORE @ 90 ft	PID = 74.9 ppm				<10.0	<10.0	936

General Description of Remedial Action: This junction box site was delineated vertically and laterally with a backhoe, producing a 20 x 20 x 12-ft-deep excavation. A sufficient declination trend in chloride concentrations was not observed. PID readings were also elevated and laboratory results confirm that NMOCD TPH guidelines were not met. The excavated soil was landfarmed on site and then backfilled into the excavation up to 6 ft BGS. At 6 ft, a 1.5 ft compacted clay barrier was installed to inhibit further downward migration of impact. The remainder of soil was backfilled and contoured on top of the clay. An identification plate was placed on the surface of this site to mark the presence of the clay barrier below and and the former site of the E-1 junction. A soil bore was conducted at this site on 3/17/2004 and chloride concentrations still did not decline with depth. Indications of VOC's ceased around 25 f and NMOCD TPH guidelines were met. The new junction is located 100 ft north is the old site.

ADDITIONAL EVALUATION IS *MEDIUM* PRIORITY

enclosures: chloride graph, photos, lab results, PID readings, clay density test, soil bore log

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
Vertical	6	1184
	8	2046
	10	1948
bottom comp.	12	2099
soil bore	25	1000
soil bore	35	706
	45	714
	55	824
	65	2439
	75	928
	85	1364
	90	1407

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

DATE 4/5/2004 PRINTED NAME Kristin Farris

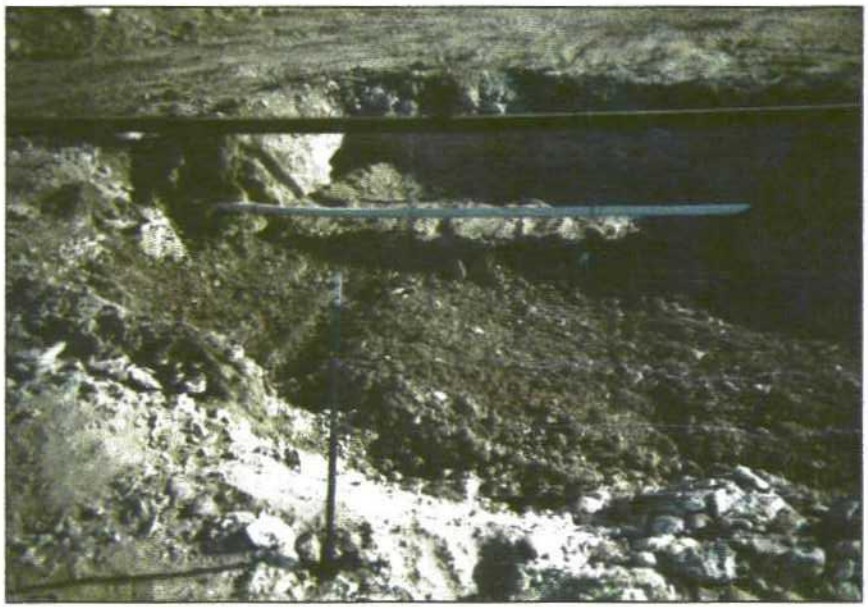
SIGNATURE Kristin Farris TITLE Project Scientist

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

Justis E-1 vent

Undisturbed junction box 4/8/2003

Excavation at old junction Nov. 2003



Installing clay barrier at 6 ft BGS

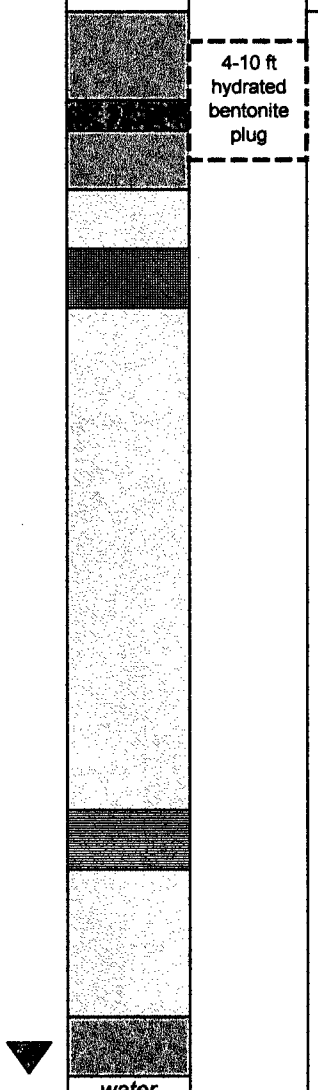
Identification plate marking old box and clay barrier below

New junction box 100 ft North of the old box

LOG OF BORING
K. Farris
RICE Operating Company

Logger:	Israel Juarez; Mort Bates	**Client:**	**Well ID:**
Driller:	Atkins Engineering Associates, Inc.	RICE Operating Company	
Drilling Method:	Hollow Stem Auger	**Project Name:**	
Start Date:	3/17/2004	E-1 vent	
End Date:	3/17/2004	**Location:**	**SB-1**
Notes:	Site of former junction box; 100 ft south of new box TD = 90 ft Groundwater = 89.30 ft	Justis SWD System Sec. 1, T25S, R37E Lea County, NM	

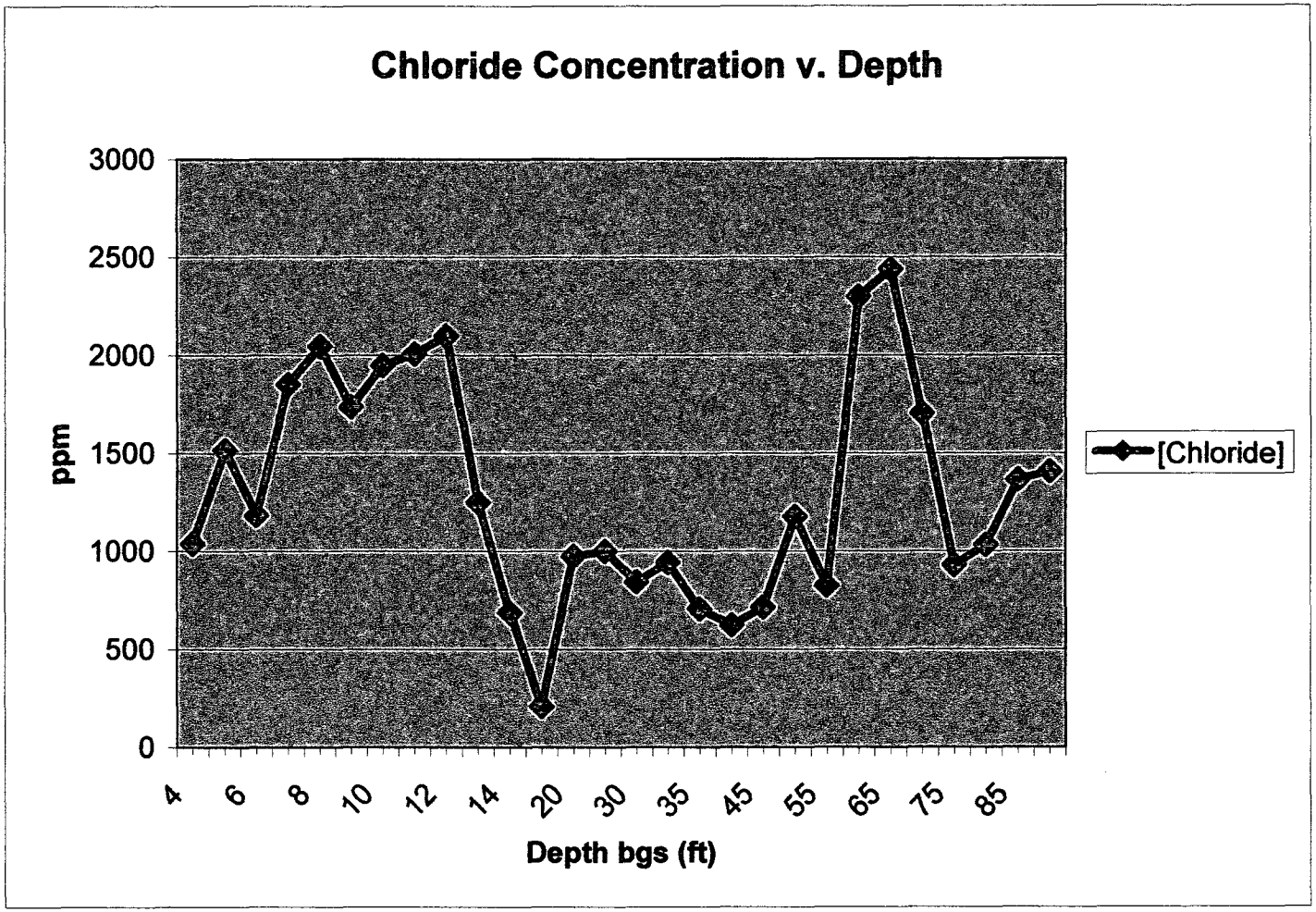
Depth (feet)	Split Spoon chloride	Split Spoon PID	Description	Lithology	Additional Notes
0.0			0-6 ft Silty Sand w/Broken Caliche: loose, light tan, damp		
5.0					
			COMPACTED CLAY BARRIER		
10.0			8-13 ft Silty Sand w/Caliche: loose, tan, damp		
15.0	209	4000+	13-16 ft Silty Sand: loose, gray, damp		
20.0	975	4000+	16-21 ft Silty Sand w/Cemented Sandstone: hard, gray, damp		
25.0	1000	50.0	21-66 ft Silty Sand: loose, brown, damp		
30.0	844	31.9			
	944	21.7			
35.0	706	36.1			
40.0	623	86.0			
45.0	714	53.2			
50.0	1177	27.6			
55.0	824	28.6			
60.0	2299	23.3			
65.0	2439	42.9			
			66-69 ft Clayey Sand: loose, brown, damp		
70.0	1703	43.0			
			69-84 ft Silty Sand: loose, brown, damp		
75.0	928	73.0			
80.0	1032	32.2			
85.0	1364	16.7	84-89 ft Poorly-graded Sand: loose, brown, damp		
90.0	1407	74.9	wet	*water*	lab = 936 ppm Cl^-



Justis jct. E-1

T25S, R37E

Depth bgs (ft)	[Cl] ppm
4	1039
5	1516
6	1184
7	1852
8	2046
9	1738
10	1948
11	2007
12	2099
13	1250
14	687
15	209
20	975
25	1000
30	844
32	944
35	706
40	623
45	714
50	1177
55	824
60	2299
65	2439
70	1703
75	928
80	1032
85	1364
90	1407



backhoe samples 4-14 ft, split-spoon soil bore 15-90 ft

Groundwater = 89.30 ft

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

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

Project: Justis E-1, L-26, E-26 Bore
Project Number: None Given
Location: Justis

Lab Order Number: 4C19008

Report Date: 03/23/04

Rice Operating Co.	Project: Justis E-1, L-26, E-26 Bore	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	03/23/04 17:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Justis E-1 @ 90'	4C19008-01	Soil	03/17/04 13:30	03/19/04 16:35
Justis E-26	4C19008-02	Soil	03/18/04 11:20	03/19/04 16:35
Justis L-26	4C19008-03	Soil	03/17/04 17:35	03/19/04 16:35

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

Rice Operating Co.	Project: Justis E-1, L-26, E-26 Bore	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	03/23/04 17:21

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Justis E-1 @ 90' (4C19008-01)									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EC42207	03/22/04	03/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*81.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*76.2 %*	*70-130*		"	"	"	"	
Justis E-26 (4C19008-02)									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EC42207	03/22/04	03/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*79.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*75.0 %*	*70-130*		"	"	"	"	
Justis L-26 (4C19008-03)									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EC42207	03/22/04	03/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*82.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*77.6 %*	*70-130*		"	"	"	"	

Environmental Lab of Texas

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Quality Assurance Review

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

Rice Operating Co.	Project: Justis E-1, L-26, E-26 Bore	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	03/23/04 17:21

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Justis E-1 @ 90' (4C19008-01)									
Chloride	**936**	20.0	mg/kg Wet	2	EC42210	03/21/04	03/21/04	SW 846 9253	
% Solids	**87.0**		%	1	EC42301	03/23/04	03/23/04	% calculation	
Justis E-26 (4C19008-02)									
Chloride	**925**	20.0	mg/kg Wet	2	EC42210	03/21/04	03/21/04	SW 846 9253	
% Solids	**82.0**		%	1	EC42301	03/23/04	03/23/04	% calculation	
Justis L-26 (4C19008-03)									
Chloride	**596**	20.0	mg/kg Wet	2	EC42210	03/21/04	03/21/04	SW 846 9253	
% Solids	**83.0**		%	1	EC42301	03/23/04	03/23/04	% calculation	

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Quality Assurance Review

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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
Batch EC42207 - Solvent Extraction (GC)										
Blank (EC42207-BLK1)				Prepared & Analyzed: 03/22/04						
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	*39.3*		*mg/kg*	*50.0*		*78.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*36.1*		*"*	*50.0*		*72.2*	*70-130*			
Blank (EC42207-BLK2)				Prepared: 03/22/04 Analyzed: 03/23/04						
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	*36.4*		*mg/kg*	*50.0*		*72.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*35.5*		*"*	*50.0*		*71.0*	*70-130*			
LCS (EC42207-BS1)				Prepared & Analyzed: 03/22/04						
Gasoline Range Organics C6-C12	414	10.0	mg/kg wet	500		82.8	75-125			
Diesel Range Organics >C12-C35	502	10.0	"	500		100	75-125			
Total Hydrocarbon C6-C35	916	10.0	"	1000		91.6	75-125			
Surrogate: 1-Chlorooctane	*49.1*		*mg/kg*	*50.0*		*98.2*	*70-130*			
Surrogate: 1-Chlorooctadecane	*36.8*		*"*	*50.0*		*73.6*	*70-130*			
LCS (EC42207-BS2)				Prepared: 03/22/04 Analyzed: 03/23/04						
Gasoline Range Organics C6-C12	407	10.0	mg/kg wet	500		81.4	75-125			
Diesel Range Organics >C12-C35	478	10.0	"	500		95.6	75-125			
Total Hydrocarbon C6-C35	885	10.0	"	1000		88.5	75-125			
Surrogate: 1-Chlorooctane	*40.7*		*mg/kg*	*50.0*		*81.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*35.8*		*"*	*50.0*		*71.6*	*70-130*			
LCS Dup (EC42207-BSD1)				Prepared & Analyzed: 03/22/04						
Gasoline Range Organics C6-C12	447	10.0	mg/kg wet	500		89.4	75-125	7.67	20	
Diesel Range Organics >C12-C35	492	10.0	"	500		98.4	75-125	2.01	20	
Total Hydrocarbon C6-C35	939	10.0	"	1000		93.9	75-125	2.48	20	
Surrogate: 1-Chlorooctane	*43.0*		*mg/kg*	*50.0*		*86.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*37.1*		*"*	*50.0*		*74.2*	*70-130*			

Environmental Lab of Texas

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Roland K. Tuttle

Quality Assurance Review

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

Rice Operating Co.	Project: Justis E-1, L-26, E-26 Bore	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	03/23/04 17:21

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 EC42207 - Solvent Extraction (GC)										
LCS Dup (EC42207-BSD2)				Prepared: 03/22/04 Analyzed: 03/23/04						
Gasoline Range Organics C6-C12	424	10.0	mg/kg wet	500		84.8	75-125	4.09	20	
Diesel Range Organics >C12-C35	528	10.0	"	500		106	75-125	9.94	20	
Total Hydrocarbon C6-C35	952	10.0	"	1000		95.2	75-125	7.29	20	
Surrogate: 1-Chlorooctane	*41.6*		*mg/kg*	*50.0*		*83.2*	*70-130*			
Surrogate: 1-Chlorooctadecane	*36.3*		*"*	*50.0*		*72.6*	*70-130*			
Calibration Check (EC42207-CCV1)				Prepared & Analyzed: 03/22/04						
Gasoline Range Organics C6-C12	502		mg/kg	500		100	80-120			
Diesel Range Organics >C12-C35	577		"	500		115	80-120			
Total Hydrocarbon C6-C35	1080		"	1000		108	80-120			
Surrogate: 1-Chlorooctane	*56.8*		*"*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*46.5*		*"*	*50.0*		*93.0*	*70-130*			
Calibration Check (EC42207-CCV2)				Prepared: 03/22/04 Analyzed: 03/23/04						
Gasoline Range Organics C6-C12	499		mg/kg	500		99.8	80-120			
Diesel Range Organics >C12-C35	571		"	500		114	80-120			
Total Hydrocarbon C6-C35	1070		"	1000		107	80-120			
Surrogate: 1-Chlorooctane	*57.1*		*"*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*48.5*		*"*	*50.0*		*97.0*	*70-130*			

Environmental Lab of Texas

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Quality Assurance Review

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

Rice Operating Co.	Project: Justis E-1, L-26, E-26 Bore	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	03/23/04 17:21

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 EC42210 - General Preparation (WetChem)										
Blank (EC42210-BLK1)				Prepared & Analyzed: 03/21/04						
Chloride	ND	20.0	mg/kg Wet							
Matrix Spike (EC42210-MS1)		**Source: 4C12017-04**		Prepared & Analyzed: 03/21/04						
Chloride	11200	20.0	mg/kg Wet	500	10600	120	80-120			
Matrix Spike Dup (EC42210-MSD1)		**Source: 4C12017-04**		Prepared & Analyzed: 03/21/04						
Chloride	11200	20.0	mg/kg Wet	500	10600	120	80-120	0.00	20	
Reference (EC42210-SRM1)				Prepared & Analyzed: 03/21/04						
Chloride	5000		mg/kg	5000		100	80-120			
Batch EC42301 - % Solids										
Blank (EC42301-BLK1)				Prepared & Analyzed: 03/23/04						
% Solids	100		%							
Duplicate (EC42301-DUP1)		**Source: 4C19006-01**		Prepared & Analyzed: 03/23/04						
% Solids	97.0		%		97.0			0.00	20	

Environmental Lab of Texas

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Quality Assurance Review

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

Rice Operating Co.	Project: Justis E-1, L-26, E-26 Bore	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	03/23/04 17:21

Notes and Definitions

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

Environmental Lab of Texas, 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: Ricr Oper.
Company Address: 122 W. Taylor
City/State/Zip: Hobbs N.M. 88240
Telephone No: (505) 393-9174 Fax No:
Sampler Signature: Jarad Murray

Project Name: Justis E-1, L-26, E-26 Bore
Project #:
Project Loc: Justis
PO #:

4C19008

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers 4oz glass	Preservative: Ice	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify):	Analyze For: TCLP: TDS (CL) SAR / EC	Analyze For: TCLP: TPH 418.1	Analyze For: TOTAL: TPH TX 1005/1006	Analyze For: TOTAL: TPH 8015M GRO/DRO	Analyze For: TOTAL: Metals: As Ag Ba Cd Cr Pb Hg Se	Analyze For: TOTAL: Volatiles	Analyze For: TOTAL: Semivolatiles	Analyze For: TOTAL: BTEX 8021B/5030	RUSH TAT (Pre-Schedule)	Standard TAT
-01	Justis E-1 @ 90'	3/17/04	1:30	1	✓									✓		✓			✓						✓
-02	Justis E-26 @	3/18/04	11:20	1	✓									✓		✓			✓						✓
-03	Justis L-26 @	3/17/04	5:35	1	✓									✓		✓			✓						✓

Special Instructions:

Sample Containers Intact? Y N
Temperature Upon Receipt: 2.0°C
Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
Rob Elam	3-19	3:35			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Jaime McMurray	03.19.04	1635

Aug 07 01 10:22a

p.2

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

Client: Rice Op.

Date/Time: 03-19-04 @ 1700

Order #: 4C19008

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	(Yes)	No	2.0 C
Shipping container/cooler in good condition?	Yes	No	N/A
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:

_____

_____

_____

_____

_____

_____

_____

_____

ANALYTICAL REPORT

Prepared for:

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

Project:	Justis E-1
PO#:	
Order#:	G0307908
Report Date:	11/14/2003

Certificates
US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Rice Operating
122 W. Taylor
Hobbs, NM 88240
505-397-1471

Order#: G0307908
Project:
Project Name: Justis E-1
Location: None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

Lab ID:	Sample :	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
0307908-01	E-1 Wall Comp.	SOIL	11/10/03	11/11/03 20:00	4 oz glass	ice
	Lab Testing:	**Rejected:** No		**Temp:** 4.0 C		
	8015M 8021B/5030 BTEX Chloride					
0307908-02	E-1 Btm @12' Comp.	SOIL	11/10/03	11/11/03 20:00	4 oz glass	ice
	Lab Testing:	**Rejected:** No		**Temp:** 4.0 C		
	8015M 8021B/5030 BTEX Chloride					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Kristin Farris		**Order#:**	**G0307908**
Rice Operating		**Project:**	
122 W. Taylor		**Project Name:**	**Justis E-1**
Hobbs, NM 88240		**Location:**	**None Given**

Lab ID: 0307908-01
Sample ID: E-1 Wall Comp.

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		11/12/03	1	5	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	**268**	50.0
DRO, >C12-C35	**1,200**	50.0
TOTAL, C6-C35	**1,468**	50.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	**20%**	**70**	**130**
1-Chlorooctadecane	**20%**	**70**	**130**

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0007431-02		11/13/03	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	**<0.025**	0.025
Toluene	**0.026**	0.025
Ethylbenzene	**0.108**	0.025
p/m-Xylene	**0.268**	0.025
o-Xylene	**0.101**	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	**85%**	**80**	**120**
Bromofluorobenzene	**91%**	**80**	**120**

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Kristin Farris		Order#:	G0307908
Rice Operating		Project:	
122 W. Taylor		Project Name:	Justis E-1
Hobbs, NM 88240		Location:	None Given

Lab ID: 0307908-02
Sample ID: E-1 Btm @12' Comp.

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		11/12/03	1	5	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	**805**	50.0
DRO, >C12-C35	**3,620**	50.0
TOTAL, C6-C35	**4,425**	50.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	**22%**	**70**	**130**
1-Chlorooctadecane	**26%**	**70**	**130**

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0007431-02		11/13/03	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	**0.064**	0.025
Toluene	**0.402**	0.025
Ethylbenzene	**1.88**	0.025
p/m-Xylene	**3.12**	0.025
o-Xylene	**1.66**	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	**167%**	**80**	**120**
Bromofluorobenzene	**121%**	**80**	**120**

Approval: Raland K Tuttle 11-15-03
Raland K. Tuttle, Lab Director, QA Officer — Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Kristin Farris		**Order#:**	**G0307908**
Rice Operating		**Project:**	
122 W. Taylor		**Project Name:**	**Justis E-1**
Hobbs, NM 88240		**Location:**	**None Given**

Lab ID: 0307908-01
Sample ID: E-1 Wall Comp.

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	1280	mg/kg	1	20	9253	11/12/03	SB

Lab ID: 0307908-02
Sample ID: E-1 Btm @12' Comp.

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	904	mg/kg	1	20	9253	11/12/03	SB

Approval: Raland K Tuttle 11-15-03
Raland K. Tuttle, Lab Director, QA Officer — Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

RL = Reporting Limit **N/A = Not Applicable**

ENVIRONMENTAL LAB OF TEXAS I, LTD. **12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800**

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0307908

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0007405-02			<10.0		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0007405-03		952	761	79.9%	
CONTROL DUP SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0007405-04		952	771	81.%	1.3%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0007405-05		1000	910	91.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0307908

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0007431-02			<0.025		
Toluene-mg/kg	0007431-02			<0.025		
Ethylbenzene-mg/kg	0007431-02			<0.025		
p/m-Xylene-mg/kg	0007431-02			< 0.025		
o-Xylene-mg/kg	0007431-02			< 0.025		
MS SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0307924-02	0	2.5	2.42	96.8%	
Toluene-mg/kg	0307924-02	0	2.5	2.31	92.4%	
Ethylbenzene-mg/kg	0307924-02	0	2.5	2.29	91.6%	
p/m-Xylene-mg/kg	0307924-02	0	5	4.58	91.6%	
o-Xylene-mg/kg	0307924-02	0	2.5	2.19	87.6%	
MSD SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0307924-02	0	2.5	2.55	102.%	5.2%
Toluene-mg/kg	0307924-02	0	2.5	2.42	96.8%	4.7%
Ethylbenzene-mg/kg	0307924-02	0	2.5	2.39	95.6%	4.3%
p/m-Xylene-mg/kg	0307924-02	0	5	4.78	95.6%	4.3%
o-Xylene-mg/kg	0307924-02	0	2.5	2.59	103.6%	16.7%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0007431-05		0.1	0.103	103.%	
Toluene-mg/kg	0007431-05		0.1	0.100	100.%	
Ethylbenzene-mg/kg	0007431-05		0.1	0.097	97.%	
p/m-Xylene-mg/kg	0007431-05		0.2	0.194	97.%	
o-Xylene-mg/kg	0007431-05		0.1	0.095	95.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0307908

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0007415-01			<20.0		
MS SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Chloride-mg/kg	0307903-01	354	500	851	99.4%	
MSD SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Chloride-mg/kg	0307903-01	354	500	851	99.4%	0.%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Chloride-mg/kg	0007415-04		5000	4960	99.2%	

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

Rice Operating
122 W. Taylor
Hobbs, NM 88240

Order#: **G0307908**

Project: **Justis E-1**

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
E-1 Wall Comp.	0307908-01	SOIL	11/10/2003	11/11/2003
E-1 Btm @12' Comp.	0307908-02	SOIL	11/10/2003	11/11/2003

Surrogate recoveries on the 8015M TPH are outside of control limits due to dilution (G0307908-01&02).
Surrogate recoveries on BTEX outside of control levels due to matrix interferences.(G0307908-02)

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By: Roland K Tuttle Date: 11-15-03

Environmental Lab of Texas I, Ltd.

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: Kristin Farris
Company Name: RICE Operating Co.
Company Address: 122 W. Taylor
City/State/Zip: Hobbs, NM 88240
Telephone No: (505) 393-9174 Fax No: (505) 397-1471
Sampler Signature: Kristin Farris

Project Name: Justis E-1
Project #:
Project Loc:
PO #:

0307908 LAB # (lab use only)

FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TDS/Cl/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 E-1 S. Wall S.P. #1	11-10-03	0900	1	✓									✓		Composite			Composite				Composite		
#2		0905	1	✓									✓											
#3		0910	1	✓									✓											
#4		0915	1	✓									✓											
#5		0920	1	✓									✓											
02 E-1 Btm @ 12' S.P. #1		1130	1	✓									✓		Composite			Composite				Composite		
#2		1135	1	✓									✓											
#3		1140	1	✓									✓											
#4		1145	1	✓									✓											
#5		1150	1	✓									✓											

Special Instructions: Composite E-1 S. WALL SP. #1-5 @ Lab Run TPH 8015M, Cl-, BTEX
Composite E-1 BTM @ 12' SP. #1-5 @ Lab Run TPH 8015M, Cl-, BTEX
COMPOSITE EQUAL PORTIONS OF S, W, E, N Wall per Ray 11-12-03

Relinquished by:	Date	Time	Received by:	Date	Time
Israel Juarez	11-11-03				
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
[signature]	11/11/03	20:00	[signature]	11/14/03	2000

Sample Containers Intact? Y N
Temperature Upon Receipt:
Laboratory Comments:
Rec 4°C

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: Kristin Farris
Company Name: RICE Operating Co.
Company Address: 122 W. Taylor
City/State/Zip: Hobbs, NM 88240
Telephone No: (505) 393-9174 Fax No: (505) 397-1471
Sampler Signature: Kristin Farris

Project Name: Justis E-1
Project #:
Project Loc:
PO #:

0307908

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify):	Analyze For: TCLP: TDS/Cl/SAR/EC	TCLP: TPH 418.1	TCLP: TPH TX 1005/1006	TCLP: TPH 8015M GRO/DRO	TCLP: Metals: As Ag Ba Cd Cr Pb Hg Se	TCLP: Volatiles	TCLP: Semivolatiles	TOTAL: BTEX 8021B/5030	RUSH TAT (Pre-Scheduled)	Standard TAT
01 ~~02~~ AT	E-1 E. WALL Comp.	11-10-03	100	1	✓									✓		✓			✓				✓		
01 ~~03~~ AT	W. WALL Comp.	11-10-03	115	1	✓									✓		✓			✓				✓		
01 ~~04~~ AT	N. WALL Comp.	11-10-03	130	1	✓									✓		✓			✓				✓		

Special Instructions:
Call Before Analysis Roy 631-1278

Relinquished by:	Date	Time	Received by:	Date	Time
* Israel Juarez	11-11-03				
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
C Holguin	11/11/03	20:00	Rec. dk	11/11/03	2000

Sample Containers Intact? Y N
Temperature Upon Receipt:
Laboratory Comments:
Rec 4°C

LABORATORY TEST REPORT

PETTIGREW and 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 Corporation Attn: Carolyn Haynes 122 W. Taylor Hobbs, NM 88240	**Material:**	Red Clay
		Test Method:	ASTM: D 2922
Project:	Justice E - 1		
Date of Test:	December 5, 2003	**Depth:**	Finished Subgrade

Test No.	Location	Dry Density % Maximum	% Moisture	Depth
SG-1	Pit - 10'E. & 5' S. of the NW Corner	95.0	21.0	

RECEIVED
DEC 10 2003
RICE OPERATING
HOBBS

Control Density:	103.9 ASTM: D 698	**Optimum Moisture:**	21.4%
Required Compaction:	95%		
Lab No.:	03-7331-7332		
Copies To:	Rice Operating		

PETTIGREW and ASSOCIATES

BY: S.E./T.

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
SERIAL NO: 104412
CALIBRATION GAS
GAS COMPOSITION: ISOBUTYLENE 100 PPM
AIR BALANCE
LOT NO: 02-2230
FILL DATE: 5-20-03
EXP. DATE: 11-20-04
ACCURACY: ± 2%
METER READING
ACCURACY: 99.6

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
Justis	V. E-1	E	1	25	37

SAMPLE	PID RESULT	SAMPLE	PID RESULT
S. wall Comp. Sx. 1	1.1	Sx. 4	3.7
Sx. 2	2.4	Sx. 5	1.9
Sx. 3	10.3	N. wall Comp. Sx. 1	1.0
Sx. 4	556	Sx. 2	2.4
Sx. 5	16.3	Sx. 3	1.2
W. wall Comp. Sx. 1	3.7	Sx. 4	4.5
Sx. 2	30.8	Sx. 5	1.5
Sx. 3	4.5	BTM. Composite @ 12'	
Sx. 4	3.9	Sx. 1	11.0
Sx. 5	1.3	Sx. 2	38.5
E. wall Comp. Sx. 1	2.4	Sx. 3	448
Sx. 2	1.9	Sx. 4	525
Sx. 3	1.5	Sx. 5	419

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

Israel Juarez
Signature

11-10-03
Date

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
SERIAL NO: 104412
CALIBRATION GAS
GAS COMPOSITION: ISOBUTYLENE 100 PPM
AIR BALANCE
LOT NO: 02-2230
FILL DATE: 5-20-03
EXP. DATE: 11-20-04
ACCURACY: 100 +/- 2%
METER READING
ACCURACY: 100.1

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
Justis	E-1	E	01	25	37

SAMPLE	PID RESULT	SAMPLE	PID RESULT
@ 15'	4000 +	75'	73'
20'	4000 +	80'	32.2
25'	50.0	85'	16.7
30'	31.9	90'	74.9
31·33	21.7		
35'	36.1		
40'	86		
45'	53.2		
50'	27.6		
55'	28.6		
60'	23.3		
65'	42.9		
70'	43		

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

Israel Juarez
Signature

3-17-04
Date