1R - 425-48

REPORTS

DATE:

7-28-08

Vacuum Jct B-5-2

IR425-48

RECEIVED
MAR 25 2014
Environmental Bureau
Oil Conservation Division

CLOSURE

RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
Vacuum	Jct. B-5-2	B	5	18S	35E	Lea	no box; system abandonment		

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

Depth to Groundwater 70 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 3/10/2006 Date Completed 4/21/2006 OCD Witness no

Soil Excavated 400.0 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** 3/20/2006 **Sample Depth** 12 ft

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

Sample Location	PID (field) ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
4-WALL COMP.		70.4	707.7	212
BOTTOM COMP.	21.3	10.6	59.5	108
BACKFILL		60.0	366.3	88.4

CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg
bottom comp.	12'	239
vertical delineation trench 15 ft south of junction (source)	1'	59
	2'	58
	3'	86
	4'	86
	5'	86
	6'	59
	7'	88
	8'	88
	9'	61
	10'	59
	11'	90
	12'	59

General Description of Remedial Action: This junction was addressed as part of the Vacuum SWD system abandonment. After the box lumber was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals producing a 30x30x12-ft-deep hole. Chloride field tests were performed on each sample, which yield generally low concentrations of chloride. Organic vapors were also measured using a PID. Representative composite samples were sent to a commercial laboratory for analysis. The excavated soil was then blended on-site and returned to the excavation and 24 yards of clean, imported top soil were used to top cap the site and contour to the surronding area. On 4/25/2006, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate.

enclosures: photos, lab results, chloride graph

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

REPORT ASSEMBLED BY Katie Jones INITIAL KJ

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE Larry Bruce Baker Jr. DATE 7-28-08

Vacuum Jct. B-2-1

Unit B, Section 5, T18S, R35E

trackhoe delineation 3/15/2006

excavation, facing south 3/16/2006

backfilling excavation site, facing north 3/30/2006

seeding backfilled site 4/25/2006

ENVIRONMENTAL LAB OF
12600 West I-20 East - Odessa, Texas 79765

FINAL

30' x 30' x 12'

Analytical Report

Prepared for:

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

COPY

Project: Vacuum Jct. B-5-2
Project Number: None Given
Location: None Given

Lab Order Number: 6C21001

Report Date: 03/24/06

Rice Operating Co.	Project: Vacuum Jct. B-5-2	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	03/24/06 11:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
4 Wall Comp. 30'X30'X12' BGS	6C21001-01	Soil	03/20/06 11:44	03/21/06 07:45
Bottom Comp.@ 12' BGS	6C21001-02	Soil	03/20/06 12:00	03/21/06 07:45
Blended soil for Backfill	6C21001-03	Soil	03/20/06 12:10	03/21/06 07:45

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4 Wall Comp. 30'X30'X12' BGS (6C21001-01) Soil									
Carbon Ranges C6-C12	**70.4**	10.0	mg/kg dry	1	EC62215	03/22/06	03/23/06	EPA 8015M	
Carbon Ranges C12-C28	**608**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**99.7**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**778**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*98.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*101 %*	*70-130*		"	"	"	"	
Bottom Comp.@ 12' BGS (6C21001-02) Soil									
Carbon Ranges C6-C12	**10.6**	10.0	mg/kg dry	1	EC62215	03/22/06	03/23/06	EPA 8015M	
Carbon Ranges C12-C28	**59.5**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**J [5.81]**	10.0	"	"	"	"	"	"	J
Total Hydrocarbon C6-C35	**70.1**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*91.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*92.6 %*	*70-130*		"	"	"	"	
Blended soil for Backfill (6C21001-03) Soil									
Carbon Ranges C6-C12	**60.0**	10.0	mg/kg dry	1	EC62215	03/22/06	03/23/06	EPA 8015M	
Carbon Ranges C12-C28	**324**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**42.3**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**426**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*101 %*	*70-130*		"	"	"	"	

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Rice Operating Co.	Project: Vacuum Jct. B-5-2	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	03/24/06 11:15

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4 Wall Comp. 30'X30'X12' BGS (6C21001-01) Soil									
Chloride	**212**	10.0	mg/kg	20	EC62303	03/23/06	03/23/06	EPA 300.0	
% Moisture	**9.8**	0.1	%	1	EC62202	03/21/06	03/22/06	% calculation	
Bottom Comp.@ 12' BGS (6C21001-02) Soil									
Chloride	**108**	10.0	mg/kg	20	EC62303	03/23/06	03/23/06	EPA 300.0	
% Moisture	**10.0**	0.1	%	1	EC62202	03/21/06	03/22/06	% calculation	
Blended soil for Backfill (6C21001-03) Soil									
Chloride	**88.4**	10.0	mg/kg	20	EC62303	03/23/06	03/23/06	EPA 300.0	
% Moisture	**11.1**	0.1	%	1	EC62202	03/21/06	03/22/06	% calculation	

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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 EC62215 - Solvent Extraction (GC)										
Blank (EC62215-BLK1)				Prepared: 03/22/06 Analyzed: 03/23/06						
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	*44.8*		*mg/kg*	*50.0*		*89.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*46.3*		"	*50.0*		*92.6*	*70-130*			
LCS (EC62215-BS1)				Prepared: 03/22/06 Analyzed: 03/23/06						
Carbon Ranges C6-C12	498	10.0	mg/kg wet	500		99.6	75-125			
Carbon Ranges C12-C28	505	10.0	"	500		101	75-125			
Total Hydrocarbon C6-C35	1000	10.0	"	1000		100	75-125			
Surrogate: 1-Chlorooctane	*52.9*		*mg/kg*	*50.0*		*106*	*70-130*			
Surrogate: 1-Chlorooctadecane	*49.8*		"	*50.0*		*99.6*	*70-130*			
Calibration Check (EC62215-CCV1)				Prepared: 03/22/06 Analyzed: 03/23/06						
Carbon Ranges C6-C12	284		mg/kg	250		114	80-120			
Carbon Ranges C12-C28	299		"	250		120	80-120			
Total Hydrocarbon C6-C35	583		"	500		117	80-120			
Surrogate: 1-Chlorooctane	*58.4*		"	*50.0*		*117*	*70-130*			
Surrogate: 1-Chlorooctadecane	*57.2*		"	*50.0*		*114*	*70-130*			
Matrix Spike (EC62215-MS1)		**Source: 6C21001-02**		Prepared: 03/22/06 Analyzed: 03/24/06						
Carbon Ranges C6-C12	445	10.0	mg/kg dry	556	10.6	78.1	75-125			
Carbon Ranges C12-C28	500	10.0	"	556	59.5	79.2	75-125			
Carbon Ranges C28-C35	6.60	10.0	"	0.00	5.81		75-125			J
Total Hydrocarbon C6-C35	945	10.0	"	1110	70.1	78.8	75-125			
Surrogate: 1-Chlorooctane	*46.9*		*mg/kg*	*50.0*		*93.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*35.1*		"	*50.0*		*70.2*	*70-130*			

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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 EC62215 - Solvent Extraction (GC)										
Matrix Spike Dup (EC62215-MSD1)	**Source: 6C21001-02**			Prepared: 03/22/06		Analyzed: 03/24/06				
Carbon Ranges C6-C12	454	10.0	mg/kg dry	556	10.6	79.7	75-125	2.00	20	
Carbon Ranges C12-C28	501	10.0	"	556	59.5	79.4	75-125	0.200	20	
Carbon Ranges C28-C35	7.43	10.0	"	0.00	5.81		75-125	11.8	20	J
Total Hydrocarbon C6-C35	955	10.0	"	1110	70.1	79.7	75-125	1.05	20	
Surrogate: 1-Chlorooctane	*47.2*		*mg/kg*	*50.0*		*94.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*35.2*		"	*50.0*		*70.4*	*70-130*			

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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
Batch EC62202 - General Preparation (Prep)										
Blank (EC62202-BLK1)				Prepared: 03/21/06 Analyzed: 03/22/06						
% Solids	100		%							
Duplicate (EC62202-DUP1)		Source: 6C20011-01		Prepared: 03/21/06 Analyzed: 03/22/06						
% Solids	94.6		%		98.6			4.14	20	
Duplicate (EC62202-DUP2)		Source: 6C21004-01		Prepared: 03/21/06 Analyzed: 03/22/06						
% Solids	93.6		%		94.0			0.426	20	
Duplicate (EC62202-DUP3)		Source: 6C21009-01		Prepared: 03/21/06 Analyzed: 03/22/06						
% Solids	84.6		%		84.6			0.00	20	
Batch EC62303 - Water Extraction										
Blank (EC62303-BLK1)				Prepared & Analyzed: 03/23/06						
Chloride	0.431	0.500	mg/kg							J
LCS (EC62303-BS1)				Prepared & Analyzed: 03/23/06						
Chloride	9.21		mg/L	10.0		92.1	80-120			
Calibration Check (EC62303-CCV1)				Prepared & Analyzed: 03/23/06						
Chloride	9.11		mg/L	10.0		91.1	80-120			
Duplicate (EC62303-DUP1)		Source: 6C21001-01		Prepared & Analyzed: 03/23/06						
Chloride	222	10.0	mg/kg		212			4.61	20	

Notes and Definitions

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: Raland K. Tuttle Date: 3-24-06

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.

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763

Phone: 915-563-1800
Fax: 915-563-1713

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Roy R. Rascon
Company Name: Rice Oper. Co.
Company Address: 122 W. Taylor
City/State/Zip: Hobb, N.M. 88240
Telephone No: 505-393-9174
Fax No:
Sampler Signature: [signature]

Project Name: VAC JCT B-5-2
Project #:
Project Loc:
PO #:

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)
1021101 -01	4 wall comp 30x35'x12' BGS	3-20-06	11:44 am	1	✓									✓		✓			✓											
-02	Bottom comp @ 12' BGS	3-20-06	12:00 pm	1	✓									✓		✓			✓											
-03	Blended soil for Back fill	3-20-06	12:10 pm	1	✓									✓		✓			✓											

TCLP:
TOTAL:

Special Instructions:

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 0.0°C
Laboratory Comments: Lascls w/ cust Seal

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	3-20-06	4:30 pm	[signature]	3/20	17:00
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
[signature]	3/21	7:45	[signature]	3-21-06	0745

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

Client: Rice Op.

Date/Time: 3/21/06 7:45

Order #: 6C21001

Initials: CR

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Sample Receipt Checklist

	Yes	No	C.C C
Temperature of container/cooler?	Yes	No	
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:

Vacuum Jct. B-5-2

unit 'B', Sec. 5, T18S, R35E

Backhoe samples at 15 ft south of junction (source)

Depth bgs (ft)	[Cl] ppm
1	59
2	58
3	86
4	86
5	86
6	59
7	88
8	88
9	61
10	59
11	90
12	59

Groundwater = 70 ft