1R - 425-89

REPORTS

DATE:

2-21-11

1R425-89

Vacuum K-33 EOL

2010

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	K-33 EOL	K	33	17S	35E	Lea	Eliminated		

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

Depth to Groundwater 62 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 4/20/2010 Date Completed 4/27/2010 OCD Witness no

Soil Excavated 9.3 cubic yards Excavation Length 7 Width 3 Depth 12 feet

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

FINAL ANALYTICAL RESULTS: **Sample Date** 4/27/2010 **Sample Depth** 12 ft

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
SOURCE 12' GRAB	3.3	<10.0	<10.0	256

CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg
background	6"	90
vertical delineation trench at the junction (source)	1'	167
	2'	172
	3'	174
	4'	180
	5'	208
	6'	308
	7'	331
	8'	341
	9'	248
	10'	386
	11'	338
	12'	196

General Description of Remedial Action: This junction box was addressed during the Vacuum SWD System Abandonment. An investigation was conducted at the former junction box site using a backhoe to collect soil samples at regular intervals creating a 7x3x12-ft deep excavation. Chloride field tests were performed on each sample which yielded low concentrations similar to that of the background sample. Organic vapors were measured using a PID which also yielded low concentrations. The deepest sample, 12 ft. BGS, was sent to a commercial laboratory for analysis of chloride and TPH. Laboratory analysis confirmed low concentrations of each. The excavated soil was returned to the excavation to ground surface and contoured to the surrounding area. On 5/21/2010, 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, PID (field) screenings, chloride curve

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 COMPANY RICE OPERATING COMPANY

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE Larry Bruce Baker Jr. DATE 2-21-11

Vacuum K-33 EOL

Unit K, Section 33, T17S, R35E

Delineation trench being excavated 4/20/2010

Collecting sample 4/20/2010

Seeding excavation 5/21/2010

Racking in seed 5/21/2010

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: BRUCE BAKER
112 W. TAYLOR
HOBBS, NM 88240

Receiving Date: 04/28/10
Reporting Date: 04/30/10
Project Number: NOT GIVEN
Project Name: VAC. K-33 EOL
Project Location: VAC. K-33 EOL

Sampling Date: 04/27/10
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: JH
Analyzed By: AB/HM

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/kg)	DRO (>C_{10}-C_{28}) (mg/kg)	Cl* (mg/kg)
ANALYSIS DATE		04/29/10	04/29/10	04/30/10
H19770-1	SOURCE GRAB @ 12'	<10.0	<10.0	256
Quality Control		579	566	500
True Value QC		500	500	500
% Recovery		116	113	100
Relative Percent Difference		5.0	2.8	< 0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl^-: Std. Methods 4500-Cl^-B
*Analysis performed on a 1:4 w:v aqueous extract.
Reported on wet weight.

Chemist

05/03/10
Date

H19770 TCL RICE

CARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name:	Rice Operating Company	**BILL TO**	
Project Manager:	Bruce Baker	P.O. #:	
Address:	122 W. Taylor	Company:	
City:	Hobbs	State: NM Zip: 88240	Attn:
Phone #:	393-9174	Fax #: 397-1471	Address:
Project #:		Project Owner:	City:
Project Name:	Vac. K-33 EOL		State: Zip:
Project Location:			Phone #:
Sampler Name:	Zach Conder		Fax #:

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME		Cl-	TPH 8015M	
H19770-1	Source grab @ 12'	G	1			✓					✓		1-27-10	4:00pm		✓	✓	

COPY

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date:	Received By:		Phone Result: ☐ Yes ☐ No	Add'l Phone #:
	Time:			Fax Result: ☐ Yes ☐ No	Add'l Fax #:
Relinquished By:	Date: 9/28/10	Received By: Jodi Henson		REMARKS: Email results to bbaker@ricesud.com and jpruis@ricesud.com	
	Time: 10:45				
Delivered By: (Circle One)		Sample Condition Cool: ☐ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)		
Sampler - UPS - Bus - Other:					

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#26

RICE OPERATING COMPANY

122 West Tayor Hobbs, NM 88240
PHONE: (575) 393-9174 FAX: (575) 397-1471
PID METER CALIBRATION & FIELD REPORT FORM

Check Model Number:

X	Model: PGM 7300	Serial No: 590-000183		Model: PGM 7600	Serial No: 110-023920
	Model: PGM 7300	Serial No: 590-000508		Model: PGM 7600	Serial No: 110-013744
	Model: PGM 7300	Serial No: 590-000504		Model: PGM 7600	Serial No: 110-013676

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO : 927041	EXPIRATION DATE: 11-16-2012
FILL DATE: 11-13-09	METER READING ACCURACY: 99.9 ppm

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
Vacuum	K-33 EOL	K	33	17S	35E

SAMPLE ID	PID	SAMPLE ID	PID
Background	0.1	Source @ 1'	1.8
		2'	1.0
		3'	0.4
		4'	0.7
		5'	1.5
		COPY	

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

SIGNATUE: [signature]

DATE: 4-20-10

RICE OPERATING COMPANY

122 West Tayor Hobbs, NM 88240
PHONE: (575) 393-9174 FAX: (575) 397-1471

PID METER CALIBRATION & FIELD REPORT FORM

Check Model Number:

X	Model: PGM 7300	Serial No: 590-000183		Model: PGM 7600	Serial No: 110-023920
	Model: PGM 7300	Serial No: 590-000508		Model: PGM 7600	Serial No: 110-013744
	Model: PGM 7300	Serial No: 590-000504		Model: PGM 7600	Serial No: 110-013676

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO : 927091	EXPIRATION DATE: 11-16-2012
FILL DATE: 11-13-09	METER READING ACCURACY: 100.0 ppm

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
Vacuum	K-33 EOL	K	33	17S	35E

SAMPLE ID	PID	SAMPLE ID	PID
		Source @ 6'	18.2
		7'	47.5
		8'	23.8
		9'	15.7
		10'	17.8
		11'	10.5
		12'	3.3

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

SIGNATUE: [signature]

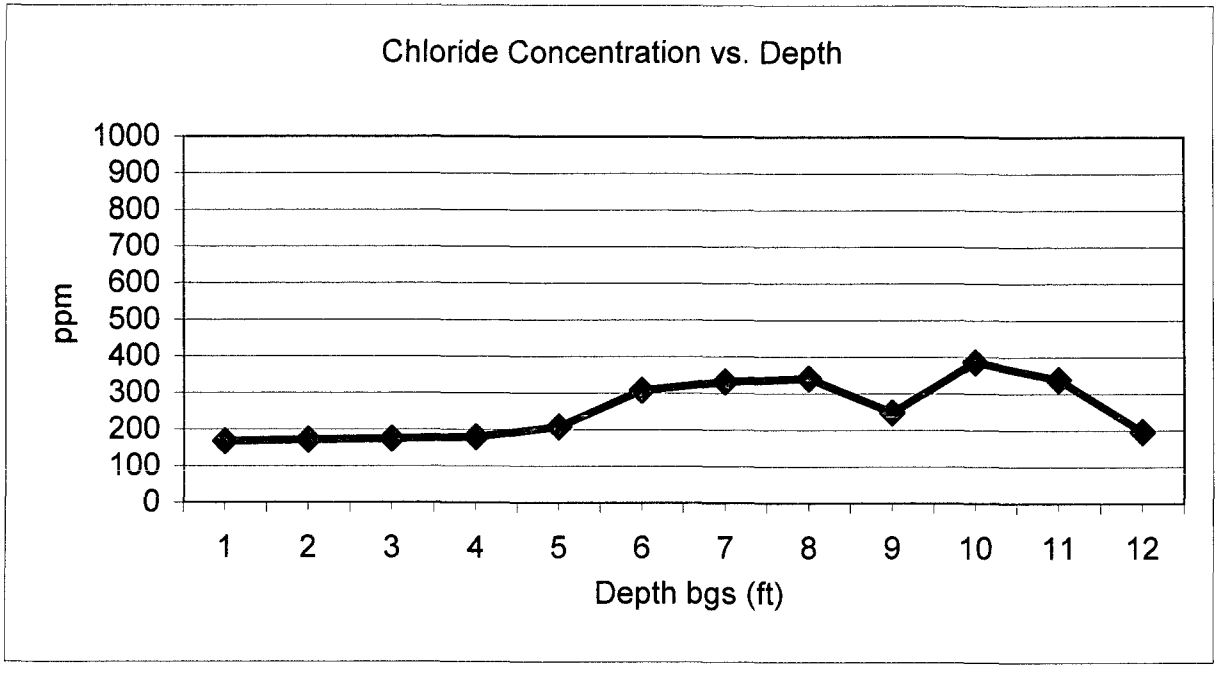
DATE: 4-27-10

Vacuum K-33 EOL

Unit 'K', Sec. 33, T17S, R35E

Backhoe samples at the junction (source)

Depth bgs (ft)	[Cl⁻] ppm
1	167
2	172
3	174
4	180
5	208
6	308
7	331
8	341
9	248
10	386
11	338
12	196



Groundwater = 62 ft