1R - 425-93

REPORTS

DATE:

3-2-11

IR425-93

Vacuum J-32 EOL

2010

DISCLOSURE

RICE OPERATING COMPANY
JUNCTION BOX DISCLOSURE* REPORT

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
Vacuum	J-32 EOL	J	32	17S	35E	Lea	eliminated		

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

Depth to Groundwater 74' feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 4/16/2010 Date Completed 6/17/2010 OCD Witness no

Soil Excavated 400.0 cubic yards Excavation Length 30 Width 30 Depth 12 feet

Soil Disposed 254 cubic yards Offsite Facility Sundance Location Eunice, NM

FINAL ANALYTICAL RESULTS: **Sample Date** 5/25/2010 **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.	1.4	<10.0	<10.0	1,720
BOTTOM COMP.	0.09	<10.0	27.1	2,400
BLENDED BACKFILL	0.08	<10.0	29.4	1,380

CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	1,261
bottom comp.	12'	1,615
blended backfill	n/a	826
background	6"	170
vertical delineation 15 ft. west of junction (source)	2'	685
	4'	531
	6'	906
	8'	1,037
	10'	997
	12'	818

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 using a backhoe to collect soil samples at regular intervals creating a 30x30x12-ft. deep excavation. Chloride field tests were performed on each sample which yielded elevated concentrations that did not relent with depth. Organic vapors were measured using a PID, which yielded low concentrations. The excavated soil was blended on site and representative samples were collected from the blended backfill, the bottom of the excavation, and excavation walls. The representative samples were sent to a commercial laboratory for analysis of chloride and TPH. The blended backfill was returned to the excavation to 4.5 ft. below ground surface (BGS). At 4 ft. BGS a 20 ml. plastic liner was installed with six inch pad of blow sand below and above liner. The remaining blended backfill was hauled off to a NMOCD approved facility. The remaining excavation was backfilled with clean imported soil to ground surface and contoured to the surrounding area. On 6/17/2010, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate. NMOCD was notified of potiental groundwater impact on 2/21/2011.

ADDITIONAL EVALUATION IS MEDIUM PRIORITY

enclosures: photos, lab results, PID (field) screenings, cross-section, chloride curve

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

SITE SUPERVISOR Robert Egans SIGNATURE Robert Egans COMPANY RICE OPERATING COMPANY

REPORT ASSEMBLED BY Zach Conder INITIAL Z. C

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE Larry Bruce Baker Jr. DATE 3-2-11

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

Vacuum J-32 EOL

Unit J, Section 32, T17S, R35E

Site prior to excavating, facing southeast 4/15/2010

Collecting a soil sample, facing west 4/30/2010

Backfilling excavation to 4.5-ft. BGS 6/02/2010

Hauling in fresh soil 6/02/2010

Installed 20 ml. plastic liner 6/03/2010

Seeding backfilled site 6/17/2010

CARDINAL LABORATORIES

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

May 27, 2010

Bruce Baker
Rice Operating Company
112 West Taylor
Hobbs, NM 88240

Re: Vacuum J-32 EOL (17/35)

Enclosed are the results of analyses for sample number H19970, received by the laboratory on 05/26/10 at 8:30 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.

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: 05/26/10
Reporting Date: 05/27/10
Project Number: NOT GIVEN
Project Name: VACUUM J-32 EOL (17/35)
Project Location: VACUUM J-32 EOL (17/35)

Sampling Date: 05/25/10
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		05/26/10	05/26/10	05/27/10
H19970-1	5PT BOTTOM COMP. @ 12'	<10.0	27.1	2,400
H19970-2	4-WALL COMP.	<10.0	<10.0	1,720
H19970-3	BLENDED BACKFILL	<10.0	29.4	1,380
Quality Control		486	488	500
True Value QC		500	500	500
% Recovery		97.2	97.6	100
Relative Percent Difference		1.1	5.1	

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

Chemist

05/27/10
Date

H19970 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

		BILL TO	
Company Name:	Rice Operating Company	P.O. #:	
Project Manager:	Bruce Baker	Company:	
Address:	122 W. Taylor	Attn:	
City:	Hobbs State: NM Zip: 88240	Address:	
Phone #:	575-393-9174 Fax #: 575-397-1471	City:	
Project #:	Project Owner:	State: Zip:	
Project Name:	Vacuum J-32 EOL (17/35)	Phone #:	
Project Location:		Fax #:	
Sampler Name:	Robert Egans		

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								
H19970-1	SpT Bottom Comp @ 12'	C	1			✓					✓		5-25-10	1:23			✓	✓								
2	4-Wall Comp	C	1			✓					✓		5-25-10	2:05			✓	✓								
3	Blended backfill	C	1			✓					✓		5-25-10	2:29			✓	✓								

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 consequential 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 #:
Robert	Time:			Fax Result: ☐ Yes ☐ No	Add'l Fax #:
Relinquished By:	Date: 5/26/10	Received By:		REMARKS: E-Mail Results To:	
	Time: 8:30	Jodi Henson		K Jones @ RiceSwd.Com	
Delivered By: (Circle One)		Sample Condition	CHECKED BY: (Initials)	B.baker " " " "	
Sampler - UPS - Bus - Other:		Cool: Yes ☐ No ☐ Intact: Yes ☐ No ☐		R Egans " " " "	

† 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:

	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 7230	Serial No: 592-903318

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO : 928547	EXPIRATION DATE: 2-4-2013
FILL DATE:	METER READING ACCURACY: 100ppm

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
Vacuum	J-32 EOL	J	32	17	35

SAMPLE ID		PID	SAMPLE ID	PID
15' East	2'	1.2	5pT. Bottom Composite	.09
	4'	1.7		
	6'	1.8	4-Wall Composite	1.4
	8'	0.1		
	10'	0	Blended BackFill	.08
	12'	0		
15' West	2'	2.8		
	4'	4.7		
	6'	0.03		
	8'	1		
	10'	0.1		
	12'	0		

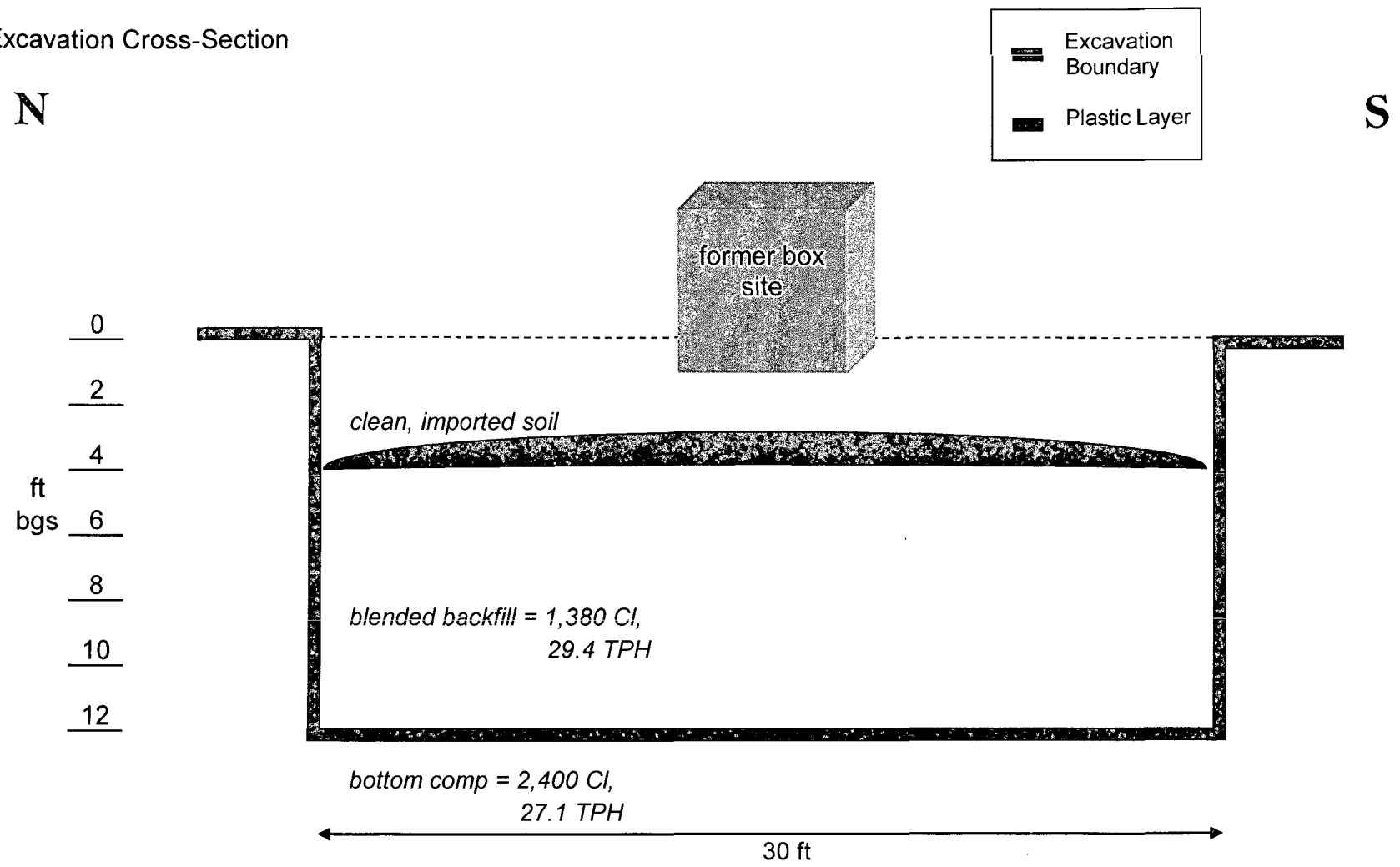
I verify that I have calibrated the above instrument in accordance to the manufacture operation manual.

SIGNATUE: Robert Evans DATE: 5-25-2010

Vacuum J-32 EOL

Unit 'J', Section 32, T17S, R35E

Excavation Cross-Section

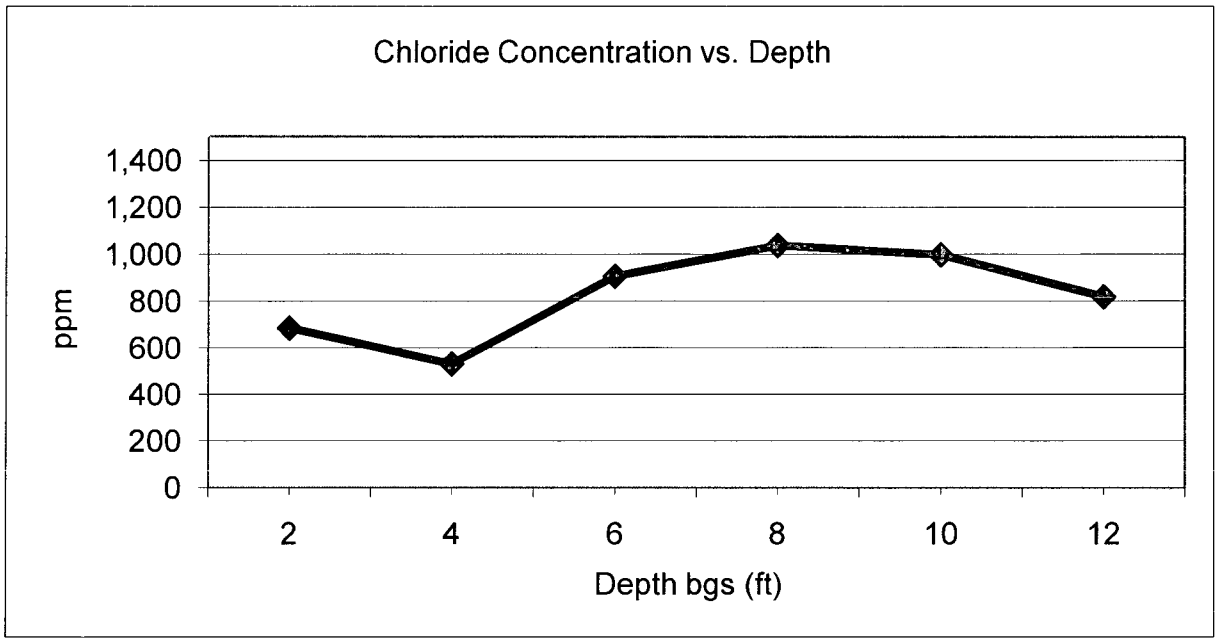


Vacuum J-32 EOL

Unit 'J', Sec. 32, T17S, R35E

Backhoe samples at 15 ft West of the junction (source)

Depth bgs (ft)	Cl ppm
2	685
4	531
6	906
8	1,037
10	997
12	818



Groundwater = 74 ft