1R - 427-236

REPORTS

DATE:

9-23-10

ARCADIS
Infrastructure, environment, buildings

ARCADIS
1004 North Big Spring Street
Suite 300
Midland
Texas 79701
Tel 432 687 5400
Fax 432 687 5401
www.arcadis-us.com

RECEIVED OCD
2010 SEP 27 A 11: 28

Sent Certified Mail
Return Receipt No. 7002 2410 0001 5813 3722

Mr. Ed Hansen
New Mexico Energy, Minerals, & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505

Environmental

Subject:

REMEDIATION TERMINATION REQUEST
Jct. H-20, EME SWD SYSTEM
UNIT 'H', SEC. 20, T20S, R37E
NMOCD CASE 1R427-236

Date:
September 23, 2010

Contact:
Sharon E. Hall

Phone:
432 687-5400

Email:
sharon.hall@arcadis-us.com

Our ref:
MT001050.0001

Mr. Hansen:

On behalf of Rice Operating Company (ROC), ARCADIS U.S., Inc. (ARCADIS) respectfully submits this Termination Request for the above-referenced site.

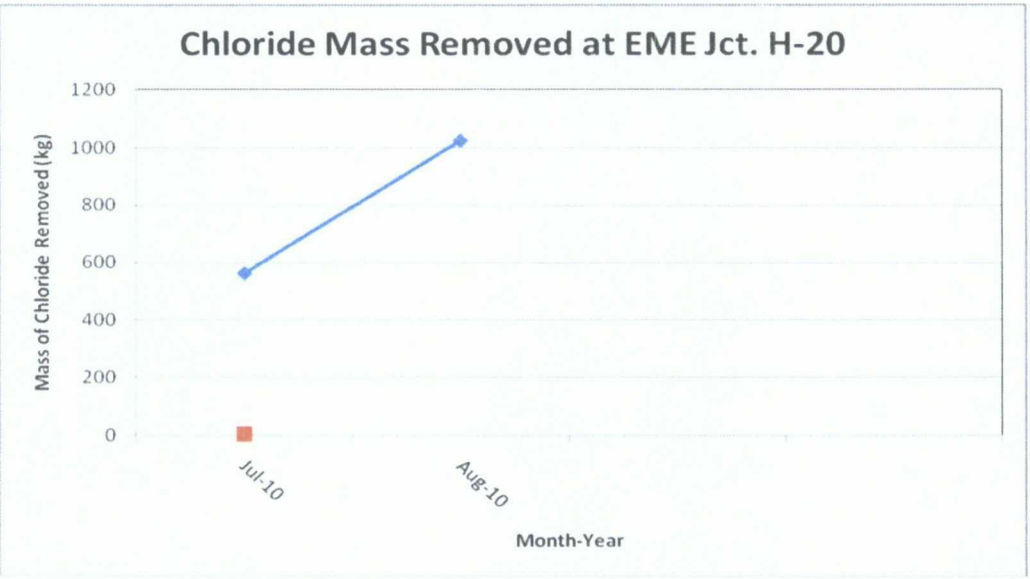
NMOCD approved ROC's Corrective Action Plan (CAP) on July 27, 2010. The site has been revegetated, and a site photo is attached.

The CAP included an estimation of the chloride mass that has contaminated the groundwater at the former junction box location and a plan for the removal of that chloride mass. The chloride mass estimation and plan for removal as proposed in the CAP addendum submitted on July 27, 2010 is as follows:

ROC proposed use of a groundwater recovery system at the former A-20 junction box location to recover an estimated 717.48 kilograms (kg) of chloride mass. A solar-driven pump was placed in well RW-1, a 4-inch recovery well. The pump generally operated 8-10 hours per day and the groundwater recovered from the well was pumped into a tank.

As of August 23, 2010, a total of 73,248 gallons of groundwater has been recovered from recovery well, RW-1. This equates to a total recovered chloride mass of 1,025.91 kg. The following graph depicts the cumulative chloride mass removed at the site since recovery began in July 2010. The chloride mass removal estimate is based on a chloride concentration of 3,700 milligrams per liter (see attached laboratory report.)

Ed Hansen
September 23, 2010



ROC has met all remediation requirements in accordance with 19.15.29 NMAC, and respectfully requests termination of the regulatory file for this site. The chloride mass for this site was removed from the nearby EME Jct. A-20 recovery system; therefore, no monitoring wells are located on this site.

ROC is the service provider (agent) for the EME Salt Water Disposal System and has no ownership of any portion of pipeline, well or facility. The EME SWD System is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis.

Thank you for your consideration concerning this request for termination at this site. If you have any questions please contact Hack Conder at (575) 393-9174.

Sincerely,
ARCADIS
Sharon E. Hall
Sharon E. Hall
Associate Vice President

Copies:
Hack Conder, ROC

Attachments:
Site Photograph
Laboratory Report

EME Jct. H-20 (1R427-236)
UNIT 'H', SEC. 20, T20S, R37E

CARDINAL Laboratories

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

August 05, 2010

Hack Conder

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: EME A-20

Enclosed are the results of analyses for samples received by the laboratory on 08/03/10 8:10.

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 Hydorcarbons

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

Cardinal Laboratories is accreditated through 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 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene
Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Rice Operating Company
Hack Conder
112 W. Taylor
Hobbs NM, 88240
Fax To: (575) 397-1471

Received:	08/03/2010	Sampling Date:	08/02/2010
Reported:	08/05/2010	Sampling Type:	Water
Project Name:	EME A-20	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	EME A-20		

Sample ID: WATER FROM RW-1 (H020526-01)

Chloride, SM4500Cl-B **mg/L** **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3700**	4.00	08/03/2010	ND	108	108	100	0.00	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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:	Hack Conder	P.O. #:	
Address:	122 West Taylor	Company:	
City:	Hobbs	State: NM Zip: 88240	Attn:
Phone #:	575-393-9174	Fax #: 575-397-1471	Address:
Project #:		Project Owner:	City:
Project Name:	EME A-20		State: Zip:
Project Location:	EME A-20		Phone #:
Sampler Name:	Jordan Woodfin		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	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions						
H20526-1	Water From RW-1	G	1	✓									8/2/10	03:55	✓										

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: Jordan Woodfin	Date: 8-3-10 Time:	Received By:	Phone Result: ☐ Yes ☑ No	Add'l Phone #:	
			Fax Result: ☐ Yes ☑ No	Add'l Fax #:	
Relinquished By:	Date: 8/3/10 Time: 8:10	Received By: Jodi Henson	REMARKS: email results Hconder@riceswd.com; jwoodfin@riceswd.com; Lweinheimer@riceswd.com		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool: ☐ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)		

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

#26

NEED SAMPLES BACK, PLEASE