

AP - 43

STAGE 1 & 2 REPORTS

DATE:

3-30-12



Infrastructure, environment, buildings

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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

Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

ARCADIS U.S.

1004 North Big Spring Street
Suite 300

Midland

Texas 79701

Tel 432 687 5400

Fax 432 687 5401

www.arcadis-us.com

Environmental

Subject:

**REMEDIATION TERMINATION REQUEST and 2011 ANNUAL
GROUNDWATER REPORT
A-20, EME SWD SYSTEM
UNIT 'A', SEC. 20, T20S, R37E
NMOCD CASE # AP-43 (formerly 1R0427-89)**

Date:

March 30, 2012

Contact:

Sharon E. Hall

Phone:

432 687-5400

Email:

sharon.hall@arcadis-us.com

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 Stage 2 Abatement Plan on May 12, 2009. The plan called for excavation of soils, placement of a clay liner and revegetation of the site. An excavation (and liner placement) summary report was included in the 2009 Monitor Well Report/Sampling Summary and Excavation Summary, submitted to NMOCD on April 12, 2010. The site has been revegetated, and site photos are attached.

Our ref:

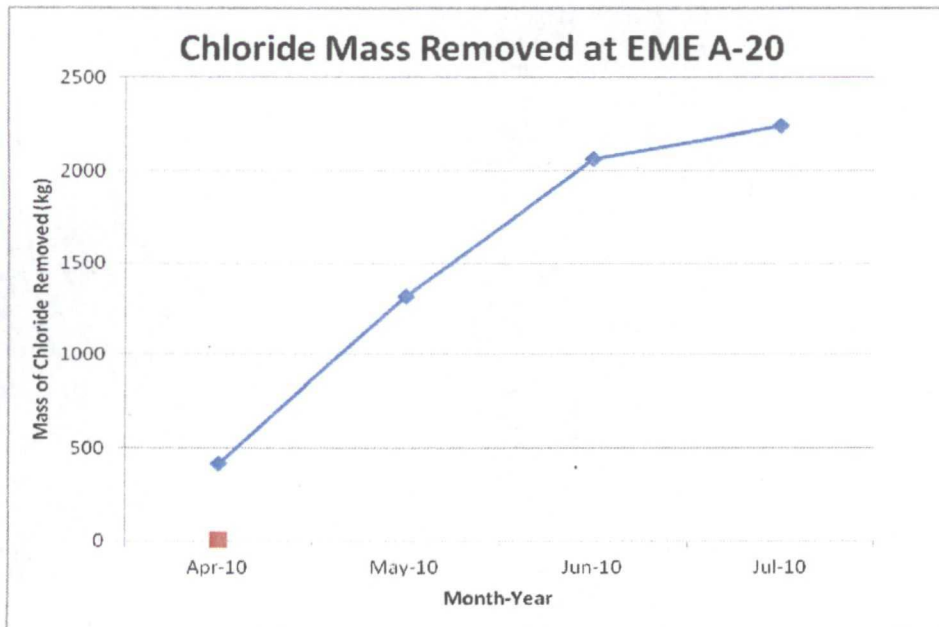
MT000857.0001

The Stage 2 Abatement Plan also 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 approved chloride mass estimation and plan for removal is as follows:

ROC proposed, and NMOCD approved, the installation of a groundwater recovery system at the former A-20 junction box location to recover an estimated 2,021.82 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.

Ed Hansen
March 30, 2012

As of July 9, 2010, a total of 171,402 gallons of groundwater has been recovered from the recovery well, RW-1. This equates to a total recovered chloride mass of 2,238.45 kilograms. The following graph depicts the cumulative chloride mass removed at the site since recovery began in April 2010. The chloride mass removal estimate is based on a chloride concentration of 3,450 milligrams per liter.



Once the NMOCD approved chloride mass was removed from RW-1, the EME A-20 recovery system was utilized to recover chloride masses for nearby sites located within the regional impact area. Since groundwater recovery began in April 2010, approximately 14,884 barrels of groundwater have been removed.

The Stage 2 Abatement Plan also proposed continued monitoring of MW-1 until BTEX concentrations were below New Mexico Water Quality Commission (WQCC) standards for four quarters. Benzene concentrations for the last 4 quarters are below the WQCC standard of 0.01 milligrams per liter (mg/L). Benzene is not detected in any of the other monitor wells at the site. Groundwater analytical results for the monitoring wells are summarized in the attached tables. Based on the facts that groundwater in the area has been reported since as early as 1952 as regionally impacted with chlorides and unusable; chloride mass has been removed from groundwater; vadose zone chloride mass has been removed by excavation of soils; surface restoration has been completed; and no water wells were identified in Section 20, Township 20S, Section 37E, we request termination of this site.

Ed Hansen
March 30, 2012

Monitoring and Recovery Wells

Upon discontinuation of the groundwater recovery system, the system will be dismantled and monitoring wells MW-1, MW-2, MW-3 and MW-4 will be plugged using a cement grout with 1 to 3% bentonite and a 3 ft cap of cement at the surface. Up-gradient MW-5 will remain open and will be periodically sampled to monitor regional groundwater impacts. The recovery well (RW-1) will be maintained so that it can be used in the future for groundwater recovery if necessary.

ROC has met all remediation requirements in accordance with 19.15.30 NMAC, and respectfully requests termination of the regulatory file for 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 Photographs
Site Survey
Laboratory Report
Analytical Results Tables

EME A-20 (AP-43)
Unit A, Section 20, T20S, R37E

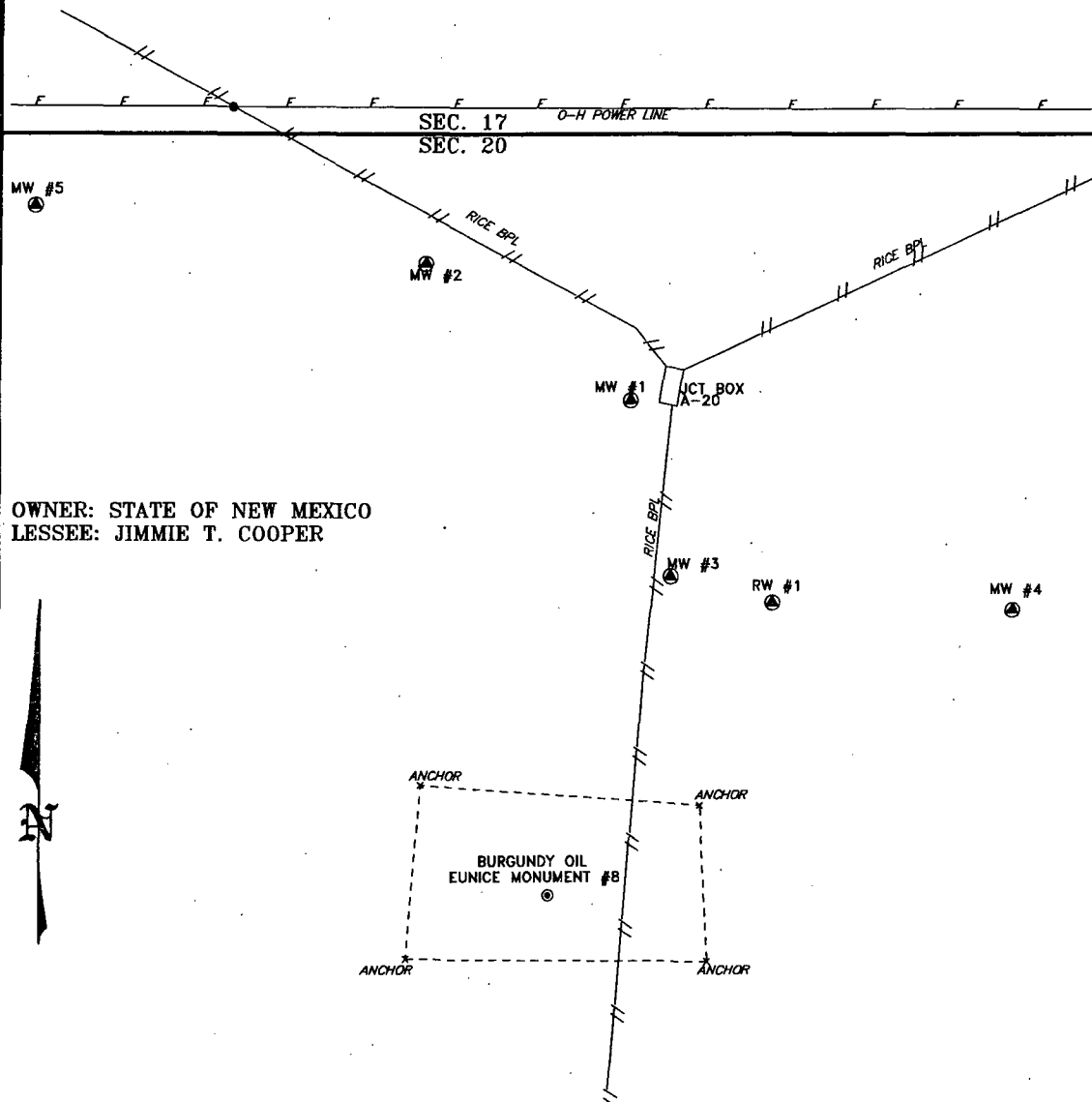


vegetation, facing northeast



vegetation, facing southwest

SECTION 20, TOWNSHIP 20 SOUTH, RANGE 37 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



NEW MEXICO STATE PLANE COORDINATES (NAD 83)

WELL#	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEV(GRND)	ELEV(PVC)	ELEV(CONC)
MW #1	571138.655	870172.201	N32°33'56.1"	W103°15'57.4"	3521.12'	3524.40'	
MW #2	571195.295	870083.029	N32°33'56.6"	W103°15'58.5"	3521.91'	3524.75'	
MW #3	571065.335	870190.079	N32°33'55.3"	W103°15'57.2"	3521.80'	3524.67'	
MW #4	571053.771	870335.855	N32°33'55.3"	W103°15'55.6"	3519.09'	3521.92'	
MW #5	571223.099	869914.641	N32°33'57.0"	W103°16'00.5"	3522.62'	3525.66'	
RW #1	571056.958	870231.835	N32°33'55.0"	W103°15'57.3"	3522.80'	3525.37'	3523.09'

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED
FROM FIELD NOTES OF A REAL SURVEY AND
MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND
SURVEYS AS SPECIFIED IN THIS STATE.

GARY L. JONES

No. 7977
No. 5074

Basin Surveys P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: 21868

Drawn By: K. GOAD

Date: 10-28-2009

Disk: KJG - 21868MW.DWG

Survey Date: VARIES

Sheet 1 of 1 Sheets

60 0 60 120 FEET

RICE OPERATING COMPANY

REF: A-20 JCT BOX MONITOR WELLS

MONITOR WELLS LOCATED IN
SECTION 20, TOWNSHIP 20 SOUTH, RANGE 37 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO.



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

February 18, 2012

Hack Conder
Rice Operating Company
112 W. Taylor
Hobbs, NM 88240

RE: EME JUNCTION A-20

Enclosed are the results of analyses for samples received by the laboratory on 02/13/12 10:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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 (V1, 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,

A handwritten signature in black ink, appearing to read "C. D. Keene", written in a cursive style.

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/13/2012	Sampling Date:	02/07/2012
Reported:	02/18/2012	Sampling Type:	Water
Project Name:	EME JUNCTION A-20	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T20S-R37E-SEC20 A ~ LEA CTY ~ NM		

Sample ID: MONITOR WELL #1 (H200360-01)

BTX 8260B		mg/L	Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.002	0.001	02/16/2012	ND	0.022	111	0.0200	12.9	
Toluene*	<0.001	0.001	02/16/2012	ND	0.021	103	0.0200	12.8	
Ethylbenzene*	<0.001	0.001	02/16/2012	ND	0.022	111	0.0200	11.9	
Total Xylenes*	0.003	0.003	02/16/2012	ND	0.064	107	0.0600	12.1	

Surrogate: Dibromofluoromethane 115 % 59.8-161

Surrogate: Toluene-d8 93.7 % 75.2-115

Surrogate: 4-Bromofluorobenzene 105 % 53.7-120

Chloride, SM4500Cl-B		mg/L	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	3300	4.00	02/17/2012	ND	104	104	100	0.00	

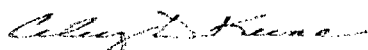
Sulfate 375.4		mg/L	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	646	10.0	02/17/2012	ND	19.5	97.5	20.0	3.53	

TDS 160.1		mg/L	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	6600	5.00	02/13/2012	ND	225	93.8	240	2.62	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/13/2012	Sampling Date:	02/07/2012
Reported:	02/18/2012	Sampling Type:	Water
Project Name:	EME JUNCTION A-20	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T20S-R37E-SEC20 A ~ LEA CTY ~ NM		

Sample ID: MONITOR WELL #2 (H200360-02)
BTEX 8260B
mg/L
Analyzed By: CMS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	02/16/2012	ND	0.022	111	0.0200	12.9	
Toluene*	<0.001	0.001	02/16/2012	ND	0.021	103	0.0200	12.8	
Ethylbenzene*	<0.001	0.001	02/16/2012	ND	0.022	111	0.0200	11.9	
Total Xylenes*	<0.003	0.003	02/16/2012	ND	0.064	107	0.0600	12.1	

Surrogate: Dibromofluoromethane 115 % 59.8-161

Surrogate: Toluene-d8 97.5 % 75.2-115

Surrogate: 4-Bromofluorobenzene 93.8 % 53.7-120

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	2950	4.00	02/17/2012	ND	104	104	100	0.00	

Sulfate 375.4
mg/L
Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	722	10.0	02/17/2012	ND	19.5	97.5	20.0	3.53	

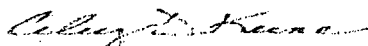
TDS 160.1
mg/L
Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	6240	5.00	02/13/2012	ND	225	93.8	240	2.62	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/13/2012	Sampling Date:	02/07/2012
Reported:	02/18/2012	Sampling Type:	Water
Project Name:	EME JUNCTION A-20	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T20S-R37E-SEC20 A ~ LEA CTY ~ NM		

Sample ID: MONITOR WELL #3 (H200360-03)

BTX 8260B		mg/L		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.001	0.001	02/16/2012	ND	0.022	111	0.0200	12.9		
Toluene*	<0.001	0.001	02/16/2012	ND	0.021	103	0.0200	12.8		
Ethylbenzene*	<0.001	0.001	02/16/2012	ND	0.022	111	0.0200	11.9		
Total Xylenes*	<0.003	0.003	02/16/2012	ND	0.064	107	0.0600	12.1		

Surrogate: Dibromofluoromethane 118 % 59.8-161

Surrogate: Toluene-d8 95.9 % 75.2-115

Surrogate: 4-Bromofluorobenzene 96.6 % 53.7-120

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	3000	4.00	02/17/2012	ND	104	104	100	0.00		

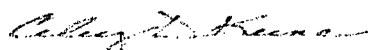
Sulfate 375.4		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	844	10.0	02/17/2012	ND	19.5	97.5	20.0	3.53		

TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	6220	5.00	02/13/2012	ND	225	93.8	240	2.62		

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/13/2012	Sampling Date:	02/07/2012
Reported:	02/18/2012	Sampling Type:	Water
Project Name:	EME JUNCTION A-20	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T20S-R37E-SEC20 A ~ LEA CTY ~ NM		

Sample ID: MONITOR WELL #4 (H200360-04)

BTEX 8260B		mg/L		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.001	0.001	02/16/2012	ND	0.022	111	0.0200	12.9		
Toluene*	<0.001	0.001	02/16/2012	ND	0.021	103	0.0200	12.8		
Ethylbenzene*	<0.001	0.001	02/16/2012	ND	0.022	111	0.0200	11.9		
Total Xylenes*	<0.003	0.003	02/16/2012	ND	0.064	107	0.0600	12.1		

Surrogate: Dibromofluoromethane 117 % 59.8-161

Surrogate: Toluene-d8 96.4 % 75.2-115

Surrogate: 4-Bromofluorobenzene 94.2 % 53.7-120

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	3550	4.00	02/17/2012	ND	104	104	100	0.00		

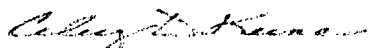
Sulfate 375.4		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	733	10.0	02/17/2012	ND	19.5	97.5	20.0	3.53		

TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	6850	5.00	02/13/2012	ND	225	93.8	240	2.62		

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/13/2012	Sampling Date:	02/07/2012
Reported:	02/18/2012	Sampling Type:	Water
Project Name:	EME JUNCTION A-20	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T20S-R37E-SEC20 A ~ LEA CTY ~ NM		

Sample ID: MONITOR WELL #5 (H200360-05)

BTEX 82608		mg/L		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.001	0.001	02/16/2012	ND	0.022	111	0.0200	12.9		
Toluene*	<0.001	0.001	02/16/2012	ND	0.021	103	0.0200	12.8		
Ethylbenzene*	<0.001	0.001	02/16/2012	ND	0.022	111	0.0200	11.9		
Total Xylenes*	<0.003	0.003	02/16/2012	ND	0.064	107	0.0600	12.1		

Surrogate: Dibromofluoromethane 120 % 59.8-161

Surrogate: Toluene-d8 96.1 % 75.2-115

Surrogate: 4-Bromofluorobenzene 92.5 % 53.7-120

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	2350	4.00	02/17/2012	ND	104	104	100	0.00		

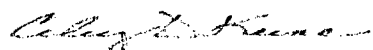
Sulfate 375.4		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	644	10.0	02/17/2012	ND	19.5	97.5	20.0	3.53		

TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	5320	5.00	02/13/2012	ND	225	93.8	240	2.62		

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/13/2012	Sampling Date:	02/07/2012
Reported:	02/18/2012	Sampling Type:	Water
Project Name:	EME JUNCTION A-20	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T20S-R37E-SEC20 A ~ LEA CTY ~ NM		

Sample ID: RECOVERY WELL #1 (H200360-06)

BTX 8260B		mg/L		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.001	0.001	02/16/2012	ND	0.022	111	0.0200	12.9		
Toluene*	<0.001	0.001	02/16/2012	ND	0.021	103	0.0200	12.8		
Ethylbenzene*	<0.001	0.001	02/16/2012	ND	0.022	111	0.0200	11.9		
Total Xylenes*	<0.003	0.003	02/16/2012	ND	0.064	107	0.0600	12.1		

Surrogate: Dibromofluoromethane 119 % 59.8-161

Surrogate: Toluene-d8 95.9 % 75.2-115

Surrogate: 4-Bromofluorobenzene 92.0 % 53.7-120

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	2950	4.00	02/17/2012	ND	104	104	100	0.00		

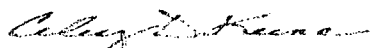
Sulfate 375.4		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	831	10.0	02/17/2012	ND	19.5	97.5	20.0	3.53		

TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	6250	5.00	02/13/2012	ND	225	93.8	240	2.62		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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.

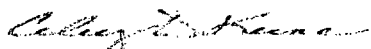
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

Company Name: RICE Operating Company		BILL TO Company: RICE Operating Company		PO#	
Project Manager: Hack Conder		Address: (Street, City, Zip) 122 W Taylor Street ~ Hobbs, New Mexico 88240			
Address: (Street City, Zip) 122 W Taylor Street ~ Hobbs, New Mexico 88240		Phone#: (575) 393-9174		Fax#: (575) 397-1471	
Phone #: (575) 393-9174		Fax #: (575) 397-1471			
Project #: EME Junction A-20					

ANALYSIS REQUEST

(Circle or Specify Method No.)

[illegible]

Relinquished by: _____ Date: _____ Time: _____	Received by: _____ Date: _____ Time: _____
Rozanne Johnson 2/13/2012 7:42	Harold R. Jones 2/13/2012 7:43
Relinquished by: _____ Date: _____ Time: _____	Received By: (Laboratory Staff) _____ Date: _____ Time: _____

Phone Results	Yes	No
Fax Results	Yes	No Additional Fax Number:

Relinquished By: <i>James Simon</i>	Date: <i>2-13-12</i>	Time: <i>10:40</i>	Received By: (Laboratory Staff) <i>Dodie Hanson</i>	Date: <i>2/13/12</i>	Time: <i>10:40</i>
Delivered By: (Circle One)			Sample Condition		Checked By:

REMARKS:

Email Results to: hconder@riceswd.com
hvalornet@hncs-gcs.com
hcones@riceswd.com
rozzanne@valornet.com

Sampler - UPS - Bus - Other: _____

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ROC EME A-20

MW	Depth to Water (feet)	Total Depth (feet)	Well Volume (gallons)	Volume Purged (gallons)	Sample Date	Cl (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl Benzene (mg/L)	Total Xylenes (mg/L)	Sulfate (mg/L)
1	24.70	38.40	2.2	6.7	3/5/2002	2279	5044	<0.002	0.003	0.006	0.014	1087
1	25.62	38.22	2	6	5/13/2002	2100	4840	XXX	XXX	XXX	XXX	793
1	26.00	38.25	1.96	6	8/22/2002	2130	4890	XXX	XXX	XXX	XXX	822
1	24.97	38.25	2.125	6.5	11/12/2002	2130	5070	XXX	XXX	XXX	XXX	780
1	26.20	38.00	0.28	0.8	3/14/2003	1120	5020	XXX	XXX	XXX	XXX	673
1	23.20	26.00	0.448	1.3	6/5/2003	2130	4500	XXX	XXX	XXX	XXX	875
1	23.42	26.00	0.4	1.2	9/3/2003	2130	5240	XXX	XXX	XXX	XXX	679
1	23.20	26.00	0.448	1.3	12/10/2003	2390	4870	XXX	XXX	XXX	XXX	731
1	25.64	26.50	0.86	2.5	2/26/2004	2300	4900	XXX	XXX	XXX	XXX	588
1	23.02	26.00	0.448	1.3	5/27/2004	1910	4480	XXX	XXX	XXX	XXX	588
1	XXX	XXX	XXX	XXX	9/16/2004	2360	5340	XXX	XXX	XXX	XXX	273
1	24.53	38.36	2.21	6.6	11/24/2004	1930	5110	XXX	XXX	XXX	XXX	422
1	22.39	XXX	XXX	XXX	3/22/2005	2330	4290	XXX	XXX	XXX	XXX	125
1	23.40	32.00	XXX	4.32	6/28/2005	2430	5060	XXX	XXX	XXX	XXX	481
1	23.45	32.00	XXX	4.18	9/6/2005	2460	5100	XXX	XXX	XXX	XXX	486
1	23.43	38.36	2.4	8	11/2/2005	2330	5310	0.00643	0.0125	0.0635	0.1558	484
1	23.22	38.36	2.4	8	2/1/2006	2750	5100	0.0139	0.0435	0.145	0.3009	434
1	23.20	38.36	2.4	8	4/26/2006	2700	5430	[0.00433]	0.00849	0.0694	0.1248	482
1	23.84	38.36	2.3	8	7/24/2006	2180	4010	0.0341	<0.0200	0.0823	0.0866	96.8
1	23.60	38.36	2.4	8	10/17/2006	1830	4050	0.0409	0.0187	0.124	0.1489	44.7
1	23.82	38.26	2.3	8	1/30/2007	2960	4870	<0.001	<0.001	<0.001	<0.001	504
1	23.67	38.26	2.3	8	4/12/2007	2870	6360	0.0288	0.0472	0.177	0.194	493
1	24.06	38.26	2.3	8	7/16/2007	2090	4220	<0.001	<0.001	<0.001	<0.002	70.4
1	24.48	38.26	2.2	8	9/4/2007	1999	4612	<0.002	0.031	0.24	0.246	115
1	24.14	38.26	2.3	8	10/11/2007	2100	4416	0.068	0.012	0.17	0.138	111
1	24.00	38.26	2.3	8	1/16/2008	2320	5501	0.028	<0.02	0.139	0.132	305
1	23.88	38.26	2.3	8	4/11/2008	2440	5560	0.027	0.006	0.102	0.068	457
1	24.41	38.26	2.2	8	7/22/2008	3200	6560	<0.002	<0.002	<0.002	<0.006	670
1	24.22	38.26	2.2	8	10/17/2008	3100	6990	0.001	<0.001	0.002	<0.003	744
1	23.90	38.28	2.3	8	2/4/2009	6570	3200	0.003	<0.001	0.003	<0.003	691
1	23.83	38.28	2.3	8	5/8/2009	2400	5120	0.03	0.004	0.05	0.024	201
1	24.76	38.28	2.2	8	8/28/2009	3300	6910	<0.001	<0.001	<0.001	<0.003	631
1	24.77	38.28	2.2	8	10/30/2009	3150	7540	0.056	0.073	0.32	1.69	610
1	24.46	38.28	2.2	8	2/16/2010	2500	5230	0.042	0.006	0.055	0.055	248
1	24.20	38.28	2.3	8	5/18/2010	2100	4890	0.012	0.002	0.016	0.014	53.8
1	23.98	38.28	2.3	8	8/10/2010	3350	6310	<0.001	<0.001	<0.001	<0.003	700
1	23.95	38.28	2.3	8	11/3/2010	3050	5400	0.026	0.003	0.016	0.018	313
1	23.88	38.28	2.3	8	2/25/2011	2400	5200	0.028	0.005	0.023	0.026	157
1	24.08	38.28	2.3	8	5/19/2011	3450	6750	0.001	<0.001	<0.001	<0.003	683
1	24.86	38.28	2.1	8	8/10/2011	3450	6190	0.002	<0.001	0.001	<0.003	642
1	24.92	38.28	2.1	8	11/8/2011	3400	6740	0.002	<0.001	0.002	0.003	652
1	24.58	38.28	2.2	8	2/7/2012	3300	6600	0.002	<0.001	<0.001	0.003	646

mg/L=milligrams per liter
XXX- not analyzed

ROC EME A-20

MW	Depth to Water (feet)	Total Depth (feet)	Well Volume (gallons)	Volume Purged (gallons)	Sample Date	Cl (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl Benzene (mg/L)	Total Xylenes (mg/L)	Sulfate (mg/L)
2	23.84	32	1.3	4	3/8/2006	2030	4610	<0.001	<0.001	<0.001	<0.001	491
2	23.72	32	1.3	15	4/26/2006	1970	4800	<0.001	<0.001	<0.001	<0.001	479
2	24.45	32	1.2	10	7/24/2006	2270	4825	<0.001	<0.001	<0.001	<0.001	648
2	24.08	32	1.3	8	10/17/2006	2040	4590	<0.001	<0.001	<0.001	<0.001	679
2	23.85	31.72	1.3	6	1/30/2007	2260	4460	<0.001	<0.001	<0.001	<0.001	745
2	23.71	31.72	1.3	6	4/12/2007	2320	5040	<0.001	<0.001	<0.001	<0.001	694
2	24.03	31.72	1.2	6	7/16/2007	2230	4870	<0.001	<0.001	<0.001	<0.002	740
2	24.46	31.72	1.2	5	9/4/2007	2339	5664	<0.002	<0.002	<0.002	<0.006	842
2	24.11	31.72	1.2	5	10/11/2007	2260	5500	<0.001	<0.001	<0.001	<0.003	790
2	23.96	31.71	1.2	5	1/16/2008	2260	5718	<0.001	<0.001	<0.001	<0.003	896
2	23.87	31.71	1.3	5	4/11/2008	2400	5780	<0.001	<0.001	<0.001	<0.003	1200
2	24.67	31.71	1.1	5	7/23/2008	2500	5520	<0.002	<0.002	<0.002	<0.006	749
2	24.39	31.71	1.2	5	10/17/2008	2460	5740	<0.001	<0.001	<0.001	<0.003	819
2	24.12	33.45	1.5	5	2/4/2009	2580	5600	<0.001	<0.001	<0.001	<0.003	691
2	24.04	33.45	1.5	5	5/8/2009	2600	5660	<0.001	<0.001	<0.001	<0.003	741
2	24.87	33.45	1.4	5	8/28/2009	2420	5360	<0.001	<0.001	<0.001	<0.003	659
2	24.92	33.45	1.4	5	10/30/2009	2550	5940	<0.001	<0.001	<0.001	<0.003	618
2	24.65	33.48	1.4	5	2/16/2010	2770	5750	<0.001	<0.001	<0.001	<0.003	836
2	24.38	33.48	1.5	5	5/18/2010	2650	5750	<0.001	<0.001	<0.001	<0.003	705
2	24.13	33.48	1.5	5	8/10/2010	2800	5660	<0.001	<0.001	<0.001	<0.003	685
2	24.13	33.48	1.5	5	11/3/2010	2650	5780	<0.001	<0.001	<0.001	<0.003	552
2	24.06	33.49	1.5	5	2/25/2011	2800	5910	<0.001	<0.001	<0.001	<0.003	626
2	24.23	33.49	1.5	5	5/19/2011	2900	5860	<0.001	<0.001	<0.001	<0.003	676
2	24.98	33.49	1.4	5	8/10/2011	3100	5800	<0.001	<0.001	<0.001	<0.003	699
2	25.05	33.49	1.4	5	11/8/2011	2950	6200	<0.001	<0.001	<0.001	<0.003	724
2	24.77	33.49	1.4	6	2/7/2012	2950	6240	<0.001	<0.001	<0.001	<0.003	722

mg/L=milligrams per liter

ROC EME A-20

MW	Depth to Water (feet)	Total Depth (feet)	Well Volume (gallons)	Volume Purged (gallons)	Sample Date	Cl (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl Benzene (mg/L)	Total Xylenes (mg/L)	Sulfate (mg/L)
3	23.90	32.70	1.4	5	3/8/2006	2200	4860	<0.001	<0.001	<0.001	<0.001	486
3	23.93	32.70	1.4	15	4/29/2006	2340	5320	<0.001	<0.001	<0.001	<0.001	452
3	24.61	32.70	1.3	10	7/24/2006	2890	4650	<0.001	<0.001	<0.001	<0.001	566
3	24.23	32.70	1.4	8	10/17/2006	2310	4900	<0.001	<0.001	<0.001	<0.001	563
3	24.02	32.75	1.4	6	1/30/2007	2460	4490	<0.001	<0.001	<0.001	<0.001	589
3	23.87	32.75	1.4	6	4/12/2007	2670	5530	<0.001	0.00109	0.000397	0.00104	516
3	24.27	32.75	1.4	6	7/16/2007	2530	5960	<0.001	<0.001	<0.001	<0.002	541
3	24.70	32.75	1.3	5	9/4/2007	2619	6212	<0.002	<0.002	<0.002	<0.006	679
3	24.30	32.75	1.4	5	10/11/2007	2500	5417	<0.001	<0.001	<0.001	<0.003	548
3	24.14	32.82	1.4	5	1/16/2008	2700	5993	<0.001	<0.001	<0.001	0.003	628
3	24.05	32.82	1.4	5	4/11/2008	2800	6010	<0.001	<0.001	<0.001	<0.003	788
3	24.81	32.82	1.3	5	7/23/2008	3000	6080	<0.002	<0.002	<0.002	<0.006	692
3	24.63	32.82	1.3	5	10/17/2008	2850	6590	<0.001	<0.001	<0.001	<0.003	662
3	24.32	33.28	1.4	5	2/4/2009	2900	6460	<0.001	<0.001	<0.001	<0.003	635
3	24.24	33.28	1.4	5	5/8/2009	2900	6160	<0.001	<0.001	<0.001	<0.003	624
3	25.13	33.28	1.3	5	8/28/2009	2800	5840	<0.001	<0.001	<0.001	<0.003	557
3	25.14	33.28	1.3	5	10/30/2009	2950	6850	<0.001	<0.001	<0.001	<0.003	679
3	24.84	33.38	1.4	5	2/16/2010	2950	6320	<0.001	<0.001	<0.001	<0.003	814
3	24.71	33.38	1.4	5	5/18/2010	2900	7370	<0.001	<0.001	<0.001	<0.003	1440
3	24.43	33.38	1.4	5	8/10/2010	2950	5860	<0.001	<0.001	<0.001	<0.003	720
3	24.36	33.38	1.4	5	11/3/2010	2900	5700	<0.001	0.002	<0.001	<0.003	669
3	24.22	33.40	1.5	5	2/25/2011	2950	6180	<0.001	0.002	<0.001	<0.003	706
3	24.54	33.40	1.4	5	5/19/2011	3100	6090	<0.001	<0.001	<0.001	<0.003	749
3	25.33	33.40	1.3	5	8/10/2011	3200	5980	<0.001	<0.001	<0.001	<0.003	792
3	25.34	33.40	1.3	5	11/8/2011	3100	6340	<0.001	<0.001	<0.001	<0.003	705
3	24.97	33.40	1.3	5	2/7/2012	3000	6220	<0.001	<0.001	<0.001	<0.003	844

mg/L=milligrams per liter

ROC EME A-20

MW	Depth to Water (feet)	Total Depth (feet)	Well Volume (gallons)	Volume Purged (gallons)	Sample Date	Cl (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl Benzene (mg/L)	Total Xylenes (mg/L)	Sulfate (mg/L)
4	21.87	31.80	1.6	10	6/13/2006	3840	6790	<0.001	<0.001	<0.001	<0.001	1060
4	21.97	31.80	1.6	10	7/24/2006	3520	6135	<0.001	<0.001	<0.001	<0.001	806
4	21.59	31.50	1.6	8	10/17/2006	3020	6560	<0.000732	<0.001	<0.001	<0.001	791
4	21.37	32.05	1.7	8	1/30/2007	3330	6260	<0.001	<0.001	<0.001	<0.001	1170
4	21.20	32.05	1.7	8	4/12/2007	3140	7170	<0.001	<0.001	<0.001	<0.001	1090
4	21.65	32.05	1.7	8	7/16/2007	3170	XXX	<0.001	<0.001	<0.001	<0.002	751
4	22.11	32.05	1.6	6	9/4/2007	3179	7270	<0.002	<0.002	<0.002	<0.006	831
4	24.30	32.75	1.4	5	10/11/2007	3000	6587	0.002	<0.001	<0.001	<0.003	670
4	21.49	32.03	1.7	6	1/16/2008	3250	7386	<0.001	<0.001	<0.001	<0.003	818
4	21.42	32.03	1.7	6	4/11/2008	3350	7450	<0.001	<0.001	<0.001	<0.003	1400
4	22.24	32.03	1.6	6	7/23/2008	3400	7000	<0.002	<0.002	<0.002	<0.006	818
4	22.00	32.03	1.6	6	10/17/2008	3250	7510	<0.001	<0.001	<0.001	<0.003	771
4	21.68	32.20	1.7	6	2/4/2009	3300	7450	<0.001	<0.001	<0.001	<0.003	756
4	21.63	32.20	1.7	6	5/8/2009	3350	6900	<0.001	<0.001	<0.001	<0.003	759
4	22.54	32.20	1.5	6	8/28/2009	3400	7060	<0.001	<0.001	<0.001	<0.003	637
4	22.53	32.20	1.5	6	10/30/2009	3350	7750	<0.001	<0.001	<0.001	<0.003	605
4	22.22	33.42	1.8	6	2/16/2010	3400	6680	<0.001	<0.001	<0.001	<0.003	891
4	21.98	33.42	1.8	6	5/18/2010	3300	6620	<0.001	<0.001	<0.001	<0.003	818
4	21.73	33.42	1.9	6	8/10/2010	3950	7660	<0.001	<0.001	<0.001	<0.003	921
4	21.74	33.42	1.9	6	11/3/2010	3500	6760	<0.001	<0.001	<0.001	<0.003	872
4	21.62	33.45	1.9	6	2/25/2011	3550	7270	<0.001	<0.001	<0.001	<0.003	724
4	21.90	33.45	1.8	6	5/19/2011	3700	6840	<0.001	<0.001	<0.001	<0.003	743
4	22.71	33.45	1.7	6	8/10/2011	3850	6730	<0.001	<0.001	<0.001	<0.003	827
4	22.72	33.45	1.7	6	11/8/2011	3650	7230	<0.001	<0.001	<0.001	<0.003	760
4	22.35	33.45	1.8	6	2/7/2012	3550	6850	<0.001	<0.001	<0.001	<0.003	733

mg/L=milligrams per liter

XXX- not analyzed

ROC EME A-20

MW	Depth to Water (feet)	Total Depth (feet)	Well Volume (gallons)	Volume Purged (gallons)	Sample Date	Cl (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl Benzene (mg/L)	Total Xylenes (mg/L)	Sulfate (mg/L)
5	25.02	32.20	1.1	10	6/13/2006	2450	4960	<0.001	<0.001	<0.001	<0.001	519
5	25.26	32.20	1.1	10	7/24/2006	2300	4235	<0.001	<0.001	<0.0001	<0.001	574
5	24.92	32.20	1.2	8	10/17/2006	2100	4550	<0.001	<0.001	<0.001	<0.001	573
5	24.68	31.98	1.2	6	1/30/2007	2420	4390	<0.001	<0.001	<0.001	<0.001	588
5	24.55	31.98	1.2	6	4/12/2007	2290	4640	<0.001	<0.001	<0.001	<0.001	505
5	24.78	31.98	1.2	6	7/16/2007	2190	4800	<0.001	<0.001	<0.001	<0.002	527
5	25.18	31.98	1.1	5	9/4/2007	2299	5236	<0.002	<0.002	<0.002	<0.006	623
5	24.90	31.98	1.1	5	10/11/2007	2220	5082	<0.001	<0.001	<0.001	<0.003	428
5	24.71	31.88	1.1	5	1/16/2008	2280	5457	<0.001	<0.001	<0.001	<0.003	548
5	24.66	31.88	1.2	5	4/11/2008	2200	5230	<0.001	<0.001	<0.001	<0.003	761
5	25.27	31.88	1.1	5	7/23/2008	2500	5510	<0.002	<0.002	<0.002	<0.006	587
5	25.19	31.88	1.1	5	10/17/2008	2650	5750	<0.001	<0.001	<0.001	<0.003	669
5	24.88	31.90	1.1	5	2/4/2009	2560	5590	<0.001	<0.001	<0.001	<0.003	577
5	24.80	31.90	1.1	5	5/8/2009	2500	5580	<0.001	<0.001	<0.001	<0.003	609
5	25.53	31.90	1.0	5	8/28/2009	2520	5640	<0.001	<0.001	<0.001	<0.003	527
5	25.64	31.90	1.0	5	10/30/2009	2350	5490	<0.001	<0.001	<0.001	<0.003	551
5	25.40	33.18	1.2	5	2/16/2010	2220	5060	<0.001	<0.001	<0.001	<0.003	708
5	25.11	33.18	1.3	5	5/18/2010	2500	5310	<0.001	<0.001	<0.001	<0.003	680
5	24.93	33.18	1.3	5	8/10/2010	2300	5050	<0.001	<0.001	<0.001	<0.003	634
5	24.84	33.18	1.3	5	11/3/2010	2250	4690	<0.001	<0.001	<0.001	<0.003	702
5	24.79	33.50	1.4	6	2/25/2011	2250	5030	<0.001	<0.001	<0.001	<0.003	626
5	24.92	33.50	1.4	5	5/19/2011	2270	4940	<0.001	<0.001	<0.001	<0.003	672
5	25.60	33.50	1.3	6	8/10/2011	2350	5020	<0.001	<0.001	<0.001	<0.003	756
5	25.77	33.50	1.2	6	11/8/2011	2350	5430	<0.001	<0.001	<0.001	<0.003	571
5	25.44	33.50	1.3	6	2/7/2012	2350	5320	<0.001	<0.001	<0.001	<0.003	644

mg/L=milligrams per liter

ROC EME A-20

MW	Depth to Water (feet)	Total Depth (feet)	Well Volume (gallons)	Volume Purged (gallons)	Sample Date	Cl (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl Benzene (mg/L)	Total Xylenes (mg/L)	Sulfate (mg/L)
RW-1	24.49	66.38	27.2	90	10/30/2009	3450	8160	<0.001	<0.001	<0.001	<0.003	610
RW-1	24.22	66.32	27.4	90	2/16/2010	3500	6890	<0.001	<0.001	<0.001	<0.003	833
RW-1	*	*	*	*	5/18/2010	3500	6820	<0.001	<0.001	<0.001	<0.003	710
RW-1	*	*	*	*	8/10/2010	3600	6660	<0.001	<0.001	<0.001	<0.003	690
RW-1	*	*	*	*	11/3/2010	3550	6910	<0.001	0.002	<0.001	<0.003	791
RW-1	*	66.32	*	100	2/25/2011	3550	7290	<0.001	<0.001	<0.001	<0.003	670
RW-1	*	66.32	*	*	5/19/2011	3650	7180	<0.001	<0.001	<0.001	<0.003	724
RW-1	*	66.32	*	*	8/10/2011	3700	6770	<0.001	<0.001	<0.001	<0.003	750
RW-1	*	66.32	*	*	11/8/2011	3700	7100	<0.001	<0.001	<0.001	<0.003	649
RW-1	*	66.32	*	*	2/7/2012	2950	6250	<0.001	<0.001	<0.001	<0.003	831

mg/L=milligrams per liter
 * pumping, not measured