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## REPORTS

## DATE:

9-15-11

#### Rice Environmental Consulting & Safety

P.O. Box 5630 Hobbs, NM 88241 Phone 575.393.4411 Fax 575.393.0293

RECEIVED OCD 2011 SEP 19 P 10: 29

CERTIFIED MAIL RETURN RECIEPT NO. 7008 1140 0001 3070 5870

September 15<sup>th</sup>, 2011

#### Mr. Edward Hansen

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

#### RE: TERMINATION REQUEST Rice Operating Company – EME SWD System EME B-8 leak (1R0480): UL/B sec. 8 T20S R37E

Mr. Hansen:

RICE Operating Company (ROC) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site in the EME Salt Water Disposal (SWD) system. ROC is the service provider (agent) for the EME SWD System and has no ownership of any portion of the pipeline, well, or facility. The system is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage/usage basis.

#### **Background and Previous Work**

The site is located approximately 2 miles south-west of Monument, New Mexico at UL/B sec. 8 T20S R37E as shown on the Site Location Map (Figure 1). Groundwater monitoring at the site shows groundwater at a depth of +/- 30 ft bgs.

On November 11, 2009, six soil borings (SB-1 through SB-6) were conducted using a Geoprobe direct push sampling rig equipped with percussion capability to delineate the chlorides in the vadose zone at the site. Four of the soil borings (SB-1 through SB-4) were spaced at representative intervals along the length of the release in areas where greatest impact had been reported during previous investigations. Two soil borings were advanced to the south (SB-5) and north (SB-6) of the release to determine background conditions. Samples were collected at two-foot intervals and field titrated to analyze for chloride content. Duplicate samples from the intervals with the highest field chloride result and the bottom of the each boring were submitted to Cardinal Laboratories for comparison with field values.

On March 3<sup>rd</sup>, 2009, a monitor well was installed at the site. Since its installation, the monitor well has been sampled quarterly for chlorides, TDS, sulfate, and BTEX.

As part of the Corrective Action Plan submitted to NMOCD on December 17<sup>th</sup>, 2009 and approved April 21<sup>st</sup>, 2010, ROC calculated the chloride mass in the vadose zone and determined that the mass contributed by the release was 10,725 kg. ROC proposed to extract that chloride mass from the groundwater by utilizing the groundwater recovery system at EME K-6 and utilize the removed groundwater for pipeline maintenance.

Groundwater recovery began on April 28<sup>th</sup>, 2010 at EME K-6. On November 18<sup>th</sup>, 2010, NMOCD approved a request to remove the chloride mass from both recovery systems located at EME K-6 and EME L-6. On April 8, 2011, groundwater recovery began at both recovery systems. As of September 2<sup>nd</sup>, 2011, a total of 3,791 barrels of groundwater had been extracted from EME K-6. With a final chloride concentration of 11,200 mg/L, 6,750 kg of chloride were removed. A total of 2,463 barrels of groundwater were extracted from the recovery system located at EME L-6. With a chloride concentration of 11,800 mg/L, 4,621 kg of chlorides were removed. The total combined chloride mass removed from each site is 11,371 kg. ROC has met the requirements in the Corrective Action Plan by recovering the necessary 10,725 kg of chlorides introduced by the discharge at EME B-8.

The site is located on a right of way (R-O-W), and the vegetation surrounding the R-O-W has recovered (Appendix B). Because ROC has removed the required chloride mass for the site and the vegetation has recovered, RECS requests "remediation termination" status of the regulatory file.

Upon approval of the termination of the regulatory file, ROC will plug and abandon the monitoring well (MW-1) located at the site per NMOCD guidelines using a 1 - 3 % bentonite slurry and a 3 foot concrete cap. NMOCD will be notified in writing of the plugging activities when they are completed.

ROC appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-9174 or me if you have any questions or wish to discuss the site.

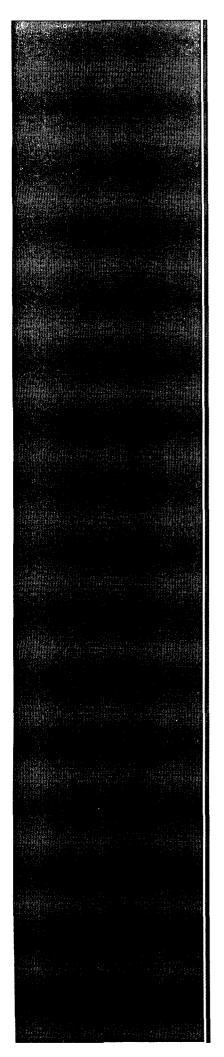
Sincerely,

AC.W

Lara Weinheimer Project Scientist RECS (575) 441-0431

Attachments:

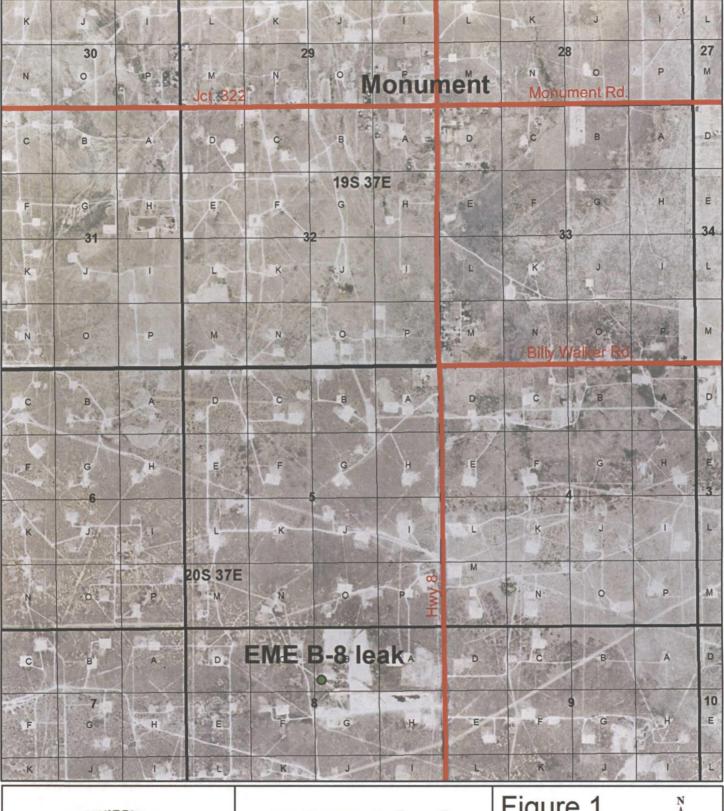
Figure 1 – Site location map Appendix A – EME K-6 and L-6 groundwater sampling laboratory confirmation Appendix B – Site photos



## Figures

RICE Environmental Consulting and Safety (RECS) P.O. Box 5630 Hobbs, NM 88241 Phone 575.393.4411 Fax 575.393.0293

### Site Map

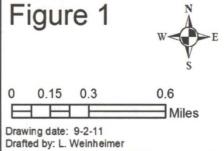




## EME B-8 leak

Legals: UL/B sec. 8 T20S R37E

Case #: 1R0480



Appendix A EME K-6 and L-6 groundwater sampling laboratory confirmation

> RICE Environmental Consulting and Safety (RECS) P.O. Box 5630 Hobbs, NM 88241 Phone 575.393.4411 Fax 575.393.0293



July 19, 2011

Hack Conder Rice Operating Company 112 W. Taylor

Hobbs, NM 88240

RE: EME K-6

Enclosed are the results of analyses for samples received by the laboratory on 07/15/11 16:40.

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. Keine

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:	07/15/2011	Sampling Date:	07/15/2011	
Reported:	07/19/2011	Sampling Type:	Water	
Project Name:	EME K-6	Sampling Condition:	** (See Notes)	
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson	
Project Location:	EME K-6			

#### Sample ID: WATER FROM RW-1 (H101477-01)

Chloride, SM4500CI-B	mg,	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11200	4.00	07/18/2011	ND	112	112	100	3.64	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4



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#### **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 SM4500CI-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

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Celey D. Kerne

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<ul> <li>A #INAL LABORATORIES</li> <li>101 East Marland, Hobbs, NW 882</li> <li>(505) 393-2326 FAX (505) 393-24</li> </ul>	<b>RES</b> 1. 88240 193-2476	2111. Beechwood, Abilene, TX 79603 (325) 673-7001 FAX (325)673-7020		
Company Name: Rice Operating Company	pany	BILL TO	ANALYSIS REQUES	JEST
Project Manager: Hack Conder	and a second state of the	P.O.#;	0†	
Address: 122 West Taylor	יישעין איז	Company:		
city: Hobbs	State: NM Zip: 88240	Attn:		
Phone #: 575-393-9174	Fax #: 575-397-1471	Address:	ԱՆ	
Project #:	Project Owner:	City:	//S H W	
Project Name: EME K-6		State: Zip:		
Project Location: EME K-6	a ana a samayan a arana ra arana a arana aran	Phone #:		
Sampler Name: Jordan Woodfin		Fax #:	8 F 87 87 87 87 87 87 87 87 87 87 87 87 87	
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Jordan Woodfin	10C	MADA	normal and a construction of	o o and and a remaining a management of a second
Rolinquished By:	Date: Received Bv:		email results	
Delivered By: (Circle One) Sampler - UPS Bus Other:	Sample Condition Soon Intact	ion CHECKED BY:	Hconder@riceswd.com; jwoodfin@rice-ecs.com; Lweinheimer@rice-ecs.com kjones@riceswd.com	e-ecs.com; riceswd.com
† Cardinal cannot accept verbal changes.	changes. Please fax written changes to 505-393-2476	505-393-2476	L NEED SAMPLES BACK,	PLEASE

Page 4 of 4



August 24, 2011

Hack Conder Rice Operating Company 112 W. Taylor

Hobbs, NM 88240

RE: EME L-6 BOOT

Enclosed are the results of analyses for samples received by the laboratory on 08/22/11 8:09.

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
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Method EPA 524.4	Regulated VOCs (V2, V3)

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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,

Celez D.Keine

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:	08/22/2011	Sampling Date:	08/19/2011
Reported:	08/24/2011	Sampling Type:	Water
Project Name:	EME L-6 BOOT	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T20S-R37E-SEC6 L-LEA CTY., NM		

#### Sample ID: MW - 2R (H101769-01)

Chloride, SM4500Cl-B	mg/	′L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11800	4.00	08/23/2011	ND	108	108	100	0.00	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

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#### **Notes and Definitions**

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RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-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. Kune

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 4

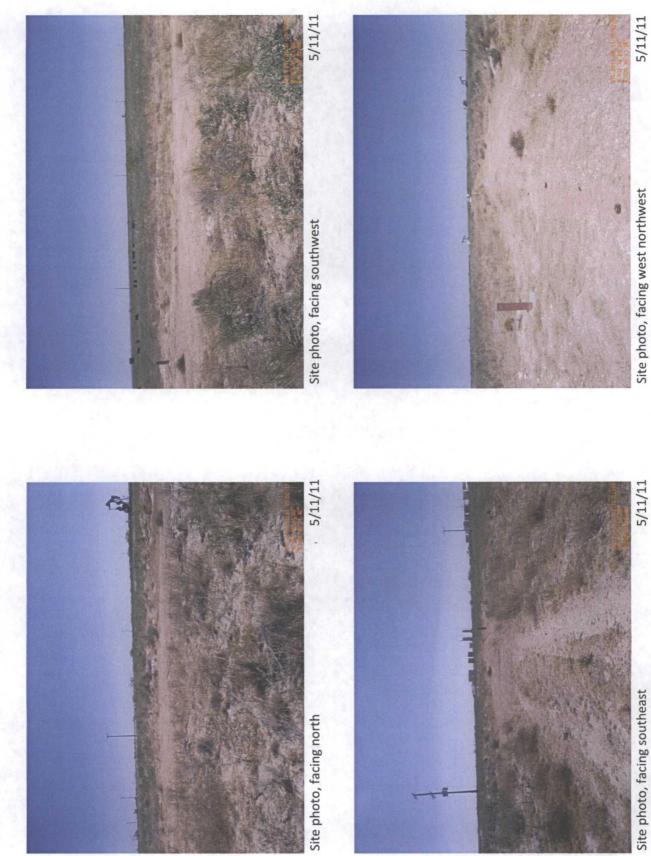
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

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		-11 (00		•					

# Appendix B

RICE Environmental Consulting and Safety (RECS) P.O. Box 5630 Hobbs, NM 88241 Phone 575.393.4411 Fax 575.393.0293



Cl removed = 1791kg 10,600 RW-1 11500 RW-1 11050 Lab Chloride Conc (ppm) Cl- average pumping from EME K-6 42840 gallons 26250 gallons 16590 gallons 1020 bbls 625 bbls 395 bbls 57 50 58 55 60 45 55 60 55 85 80 80 80 100 80 50 Fluid Hauled (sldd) Total for project Total for June EME B-8 leak (1R0480) Total for project 6/2/2010 6/8/2010 6/9/2010 4/28/2010 5/3/2010 5/3/2010 5/5/2010 5/10/2010 5/12/2010 5/17/2010 5/19/2010 5/24/2010 5/26/2010 5/31/2010 6/14/2010 6/16/2010 6/21/2010 6/30/2010 Date

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10400	1993	11200	
	Total Cl- removed		
48 36 33 22 22 22	258 bbls 10836 gallons 1278 bbls 53676 gallons	82 57 30 34 64 30 30	384 bbls 16128 gals 1662 bbls 69804 gals
	Total for July Total for project		Total for Aug Total for project
7/6/2010 7/17/2010 7/12/2010 7/19/2010 7/21/2010 7/26/2010 7/28/2010		8/2/2010 8/4/2010 8/9/2010 8/11/2010 8/16/2010 8/18/2010 8/23/2010 8/23/2010 8/31/2010	

72 23 43 20 20 22 23 30 30 30 70tal for Sept. 254 bbls 70tal for project 1916 bbls 80472 80472 36 65 65 65 46 52 36 65 46 53 36 65 46 57 37 22 36 46 53 43 43 43 43 43 40 40 57 46 55 36 65 65 46 65 46 65 46 65 46 52 36 50 36 55 46 55 46 55 46 55 46 55 46 55 46 55 47 57 57 57 57 57 57 57 50 56 56 55 47 57 57 57 57 57 57 56 56 56 55 56 55 50 56 55 56 56 56 56 56 56 56 56 56 56 56			11000															10400										9800 RW-1			
Total for Sept. Total for project Total for Oct. Total for project	72	22		43	20	22	22	23	30	254 bbls	10668 gals	1916 bbls	80472	57	22	50	36	65	46	22	43	341 bbls	14322 gals	2257 bbls	94794 gals	22	40		22	65	36
										Total for Sept.		Total for project										Total for Oct.		Total for project							

11/22/2010 11/26/2010		30 29					
	Total for Nov.	244 bbls 10248 gals	Ö	Cl- Removed	3896.746801 kg	â	
	Total for project	2501 bbls 105042 gals					
EMEV 6							
			4/8/2011	1-6	121		
4/11/2011 K-	K-6	107	4/11/2011	P-1	50		
4/15/2011 K-	K-6	35	4/15/2011	L-6	57		
4/18/2011 K-6	-9	35	4/18/2011	L-6	57		
4/20/2011 K-6	-6 10700	RW-1	4/20/2011	P-1		11200	RW-1
4/22/2011 K-6	-9	40	4/22/2011	Г-6	60		
4/25/2011 K-6	-9	42	4/25/2011	L-6	57		
4/29/2011 K-6	-6	50	4/29/2011	L-6	71		
	Total for April	309 bbls	Total for April	April	473	bbls	
		12978 gals			19866	gals	
	Project Total	2810 bbls	Total for Project	roject	473	bbls	
		118020 gals			15330	gals	
Total Cl- Removed	d 4780.270997	kg	Total Cl- Removed	emoved	842.2510936	kg	
5/2/2011 K-	K-6	42	5/2/2011	L-6	64		
5/6/2011 K-6	-6	.09	5/6/2011	L-6	85		
5/9/2011 K-6	-6	78	5/9/2011	L-6	57		
5/13/2011 K-6	-6	78	5/12/2011	L-6	66		
5/19/2011 K-6	-6	75	5/13/2011	L-6	30		
5/20/2011 K-	K-6	20	5/16/2011	F-6	57		

4

11000 RW-1	· ·	RW-2	
		11600	
107 64 78 80 45 71	804 bbls 33768 gals 1277 bbls 53634 gals 2233.294532 kg	60 20 60 55 50 50 50 50	491 bbls 20622 gals 1768 bbls 74256 gals 3260.638634 kg
ب ب ب ب ب ب 	May Project :moved	ب ب ب ب ب ب ب ب ب ب ب ب ب ب ب ب ب ب ب ب	June roject :moved
5/19/2011 5/20/2011 5/23/2011 5/25/2011 5/26/2011 5/2011	Total for May Total for Project Total Cl- Removed	6/2/2011 6/3/2011 6/6/2011 6/10/2011 6/13/2011 6/15/2011 6/15/2011 6/17/2011 6/20/2011 6/20/2011 6/20/2011	Total for June Total for Project Total Cl- Removed
78 RW-1	431 bbls 18102 gals 3241 bbls 136122 gals	78 85 80 RW-1 85 80	408 bbls 17136 gals 3649 bbls 153258 gals
10800	Total for May Total For Project 5565.000487 kg	11100	Total for June Total for Project 6439.605495 kg
А-6 А-6		× × × × × × × • • • • • • • • • • • • •	
5/25/2011 5/26/2011	Total Cl- Removed	6/2/2011 6/10/2011 6/15/2011 6/16/2011 6/30/2011	Total Cl- Removed

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RW-1		RW-1 RW-1
11600		11600
57 - 38 14 42 42 42 42	310 bbls 13020 gals 2078 bbls 87276 gals 3832.356947 kg	57 50 58 58 28 42 50 60 60 14490 gals 2423 bbls 2423 bbls 2423 bbls 101766 gals 4545.669344 kg
9 9 9 9 9 9 	r July Project emoved	L-6 L-6 L-6 L-6 L-6 L-6 L-6 August Project emoved
7/4/2011 7/7/2011 7/15/2011 7/15/2011 7/18/2011 7/21/2011 7/22/2011 7/22/2011	Total for July Total for Project Total Cl- Removed	7/15/2011       L-6         8/1/2011       L-6         8/4/2011       L-6         8/19/2011       L-6         8/19/2011       L-6         8/19/2011       L-6         8/19/2011       L-6         8/25/2011       L-6         8/25/2011       L-6         8/29/2011       L-6         7/0tal for August       Total for Project         70tal Cl- Removed       Total Cl- Removed
78 22 42 0	142 bbls 5964 gals 3791 bbls 159222 gals 3 kg	RW-1 0 bbls 0 gals 3791 bbls 159222 gals 3 kg
11200	Total for July Total for Project 6750.473353 kg	11200 Total for August Total for Project 6750.473353 kg
х х х х х х х х х х х х х х х х х х х		
7/7/2011 7/14/2011 7/15/2011 7/21/2011	Total Cl- Removed	7/15/2011 K-6

RW-1			
11800			
30 10	40 bbls	1680 gals 2463 bbls 103446 gals	4620.711347 kg
9 9 L-6	August	Project	Removed
8/19/2011 9/1/2011 9/2/2011	Total for August	Total for Project	Total Cl- Removed
RW-1	0 bbls	0 gals 3791 bbls 15977 gals	
11200	Total for August	Total for Project	6750.473353 kg
Ч-6	Tot	Tot	moved
7/15/2011			Total Cl- Removed

Total Cl- Removed 11371.1847 kg