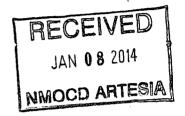


LINN ENERGY

2130 W. Bender Blvd. Hobbs, NM 88241 Phone 575,738,1739



HE West B #4 Battery – West B 38 2RP-1864

Termination Request

API No. 3001526001

Release Date: August 16th, 2013

Unit Letter F, Section 10, Township 17S, Range 31E

Rice Environmental Consulting & Safety

P.O. Box 2948, Hobbs, NM 88241 Phone 575,393,2967

January 8th, 2013

Mike Bratcher

New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau – District 2 811 S. First St. Artesia, NM 88210

> RE: Corrective Action Plan Report and Termination Request Linn Energy – HE West B #4 Battery – West B 38 (2RP-1864) UL/F sec. 10 T17S R31E API No. 3001526001

Mr. Bratcher:

Linn Energy (Linn) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

Background and Previous Work

The site is located approximately 7.4 miles northeast of Loco Hills, New Mexico at UL/F sec. 10 T17S R31E. This site is in an area of no known groundwater.

On August 16th, 2013, the flow line from the West B 41 to the West B #4 Tank Battery developed a pin hole and released 5 gallons of produced water and 5 gallons of oil. None of this fluid was recovered. The pin hole sprayed fluid over 1,126 square feet. BLM was notified of the release on August 19th, 2013 and an initial C-141 was approved by NMOCD on August 26th, 2013 (Appendix A).

Beginning on August 23rd, 2013, RECS personnel were on site to assess the release. Four points within the release were sampled at the surface and three of the points were sampled with depth (Figure 1). The samples were field tested for chlorides and for organic vapors using a PID meter. The samples were taken to a commercial laboratory for analysis (Appendix B). Points 1, 2 and 4 returned laboratory chloride readings below 1,000 mg/kg at 6 inches bgs and Point 3 returned a laboratory chloride reading below 1,000 mg/kg at the surface. Gasoline Range Organics (GRO) and BTEX readings at all points at all depths were non-detect. Diesel Range Organics (DRO) readings were below regulatory standards except for Point 1 at the surface and Point 2 at the surface and at 6 inches.

On September 9th, 2013 a Corrective Action Plan (CAP) was submitted to NMOCD and BLM. NMOCD approved the CAP on October 10th, 2013 and BLM approved the CAP on September 26th, 2013. The CAP recommended that the entire site be scraped down 6 inches and the soil taken to a NMOCD approved facility for disposal. The site would then be backfilled with clean, imported soil and contoured to the surrounding location.

Soil amendments would be added to the imported soil as necessary and the site would then be seeded with a blend of native vegetation. Vegetation provides an infiltration barrier for the site, since plants capture water through their roots thereby reducing the amount of water traveling through the vadose zone to groundwater.

Corrective Action Plan Report

On November 7th, 2013, RECS personnel were on site to begin the corrective actions. The entire release area was scraped down 6 inches and a total of 56 yards was exported to a NMOCD approved facility. 36 yards of clean soil was imported to the site to serve as backfill. A sampled of the backfill was taken to a commercial laboratory and returned a chloride value of non-detect (Appendix C). The site was backfilled and contoured to the surrounding location. On November 14th, 2013, soil amendments were added to the soil and the site was seeded with LPC mix.

Photo documentation of these activities can be found in Appendix D.

Given that the corrective actions as approved by NMOCD and BLM have been completed, Linn respectfully requests 'remediation termination' and site closure. The final C-141 can be found in Appendix E.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,

Lara Weinheimer

Project Scientist

RECS

(575) 441-0431

Attachments:

Figure 1 – Initial Sampling Data

Appendix A – Initial C-141

Appendix B – Initial Sampling Lab

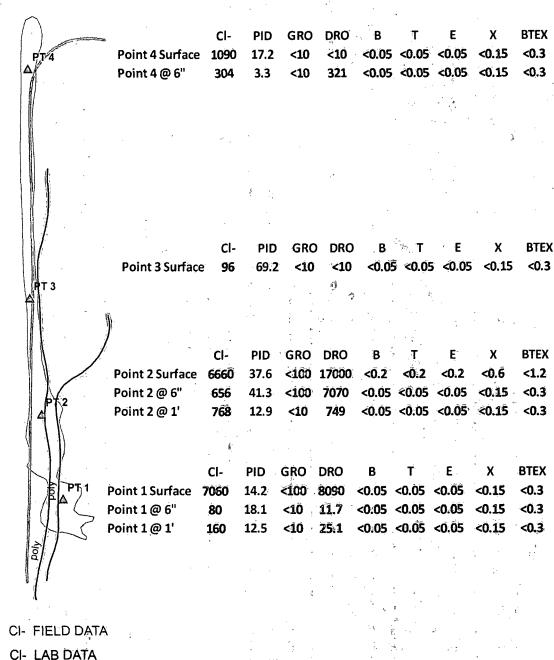
Appendix C – Imported Soil Lab

Appendix D – Photo Documentation

Appendix E – Final C-141



Initial Sampling Data



Legend

SAMPLE POINT

ROADWAY

SURFACE PIPELINE

STAIN (1126 sq ft)

Landowner = BLM

DGW = None



LINN H.E. WEST B #4 BATTERY-WEST B 38 (2RP-1864)

LEGALS: UL/F, SEC 10 T17S - R31E EDDY COUNTY, NM

Figure 1



25 50 Feet

GPS date: 8/23/2013 KS Drawing date: 9/5/13 Drafted by: L. Weinheimer

Appendix A Initial C-141

District 1
1625 N. French Ors, Hobbs, NM 88240
District II
1301 W. Grand Ayenne, Ariesia, NM 88210
District III
1000 Rio Brazos Road, Aziec, NM 87910
District IV
1220 S. Scoffanicis Orz, Santo Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

RECEIVED

Form C-141 Revised October 19, 2003

AUGISTICS 2013 to appropriate District Office in accordance with 19715-29 NMAG

NMOCD ARTESIA

			Refe	ase Notific	cation	and Co	rrective A	ction		•		
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Appendix B Initial Sampling Lab



September 03, 2013

HACK CONDER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: H. E. WEST B #4 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/26/13 11:05.

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/ga/lab accred certif.html.

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 (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celego Keine

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

Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY HACK CONDER

419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received:

08/26/2013

Sampling Date:

08/23/2013

Reported:

09/03/2013

Sampling Type:

Soil

Project Name:

H. E. WEST B #4 BATTERY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: POINT 1 @ SURFACE (H302052-01)

BTEX 8260B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2013	ND	2.31	116	2.00	1.37	
Toluene*	<0.050	0.050	08/30/2013	ND	2.21	111	2.00	1.96	
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	2.11	106	2.00	3.06	
Total Xylenes*	<0.150	0.150	08/30/2013	ND	6.33	106	6.00	1.84	
Total BTEX	<0.300	0.300	08/30/2013	ND					
Surrogate: Dibromofluoromethane	103	% 61.3-14	2						
Surrogate: Toluene-d8	101	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	104	% 65.7-14	1						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7060	16.0	08/30/2013	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: AR/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	09/01/2013	. ND	210	105	200	4.91	
DRO >C10-C28	8090	100	09/01/2013	ND	205	102	200	5.30	
Surrogate: 1-Chlorooctane	91.6	% 65.2-14	0						*
Surrogate: 1-Chlorooctadecane	343	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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 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. Keine



RICE ENVIRONMENTAL CONSULTING & SAFETY HACK CONDER

419 W. CAIN HOBBS NM, 88240

Fax To:

(575) 397-1471

Analyzed By: CK

Received:

08/26/2013

Sampling Date:

08/23/2013

Reported:

BTEX 8260B

09/03/2013

Sampling Type:

Soil

Project Name:

H. E. WEST B #4 BATTERY

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Project Number: Project Location: NONE GIVEN

mg/kg

NOT GIVEN

Sample ID: POINT 1 @ 6" (H302052-02)

				-					
. Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	08/30/2013	ND	2.31	116	2.00	1.37	
Toluene*	< 0.050	0.050	08/30/2013	ND	2.21	111	2.00	1.96	
Ethylbenzene*	< 0.050	0.050	08/30/2013	ND	2.11	106	2.00	3.06	
Total Xylenes*	< 0.150	0.150	08/30/2013	ND	6.33	106	6.00	1.84	
Total BTEX	<0.300	0.300	08/30/2013	ND					
Surrogate: Dibromofluoromethane	100	% 61.3-14	22						
Surrogate: Toluene-d8	98.8	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	102	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP		•			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/30/2013	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2013	ND	210	105	200	4.91	
DRO >C10-C28	11.7	10.0	08/30/2013	ND	205	102	200	5.30	
Surrogate: 1-Chlorooctane	93.7	% 65.2-14	0				÷ · #		
Surrogate: 1-Chlorooctadecane	96.4	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keens



RICE ENVIRONMENTAL CONSULTING & SAFETY HACK CONDER

419 W. CAIN HOBBS NM, 88240

(575) 397-1471 Fax To:

08/26/2013

09/03/2013

Project Name: Project Number:

H. E. WEST B #4 BATTERY NONE GIVEN

Project Location:

Received:

Reported:

NOT GIVEN

Sampling Date:

08/23/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: POINT 1 @ 1' (H302052-03)

BTEX 8260B	mg/	/kg	Analyze	d By: CK		w			
Analyte	Resült	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2013	ND	2.31	116	2.00	1.37	
Toluene*	<0.050	0.050	08/30/2013	ND	2.21	111	2.00	1.96	
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	2.11	106	2.00	3.06	
Total Xylenes*	<0.150	0.150	08/30/2013	ND	6.33	106	6.00	1.84	
Total BTEX	<0.300	0.300	08/30/2013	ND					
Surrogate: Dibromofluoromethane	104	% 61.3-14	2						
Surrogate: Toluene-d8	98.1	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	102	% 65.7-14	1 .						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP	<u>,</u>				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/30/2013	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2013	ND	210	105	200	4.91	
DRO >C10-C28	25.1	10.0	08/30/2013	ND	205	102	200	5.30	
Surrogate: 1-Chlorooctane	101 5	% 65.2-14	0						
Surrogate: 1Chlorooctadecane	106 9	% 63.6-15	4 .						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY HACK CONDER 419 W. CAIN HOBBS NM, 88240

Fax To:

(575) 397-1471

Analyzed By: CK

Received:

08/26/2013

Sampling Date:

08/23/2013

Reported:

BTEX 8260B

09/03/2013

Sampling Type:

Soil

Project Name:

H. E. WEST B #4 BATTERY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

mg/kg

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: POINT 2 @ SURFACE (H302052-04)

BTEX 8200B	ilig/	<u> </u>	Andryze	u by. Ch					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	08/29/2013	ND	2.22	111	2.00	13.0	
Toluene*	<0.200	0.200	08/29/2013	ND	2.11	105	2.00	9.88	
Ethylbenzene*	<0.200	0.200	08/29/2013	ND	2.05	102	2.00	10.5	
Total Xylenes*	<0.600	0.600	08/29/2013	ND	6.12	102	6.00	9.59	
Total BTEX	<1.20	1.20	08/29/2013	ND					
Surrogate: Dibromofluoromethane	103 %	6 61.3-14	2						
Surrogate: Toluene-d8	99.2 9	% 71.3-12.	9						
Surrogate: 4-Bromofluorobenzene	106 %	65.7-14	1 .						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6660	16.0	08/30/2013	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: AR/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	09/01/2013	ND	210	105	200	4.91	
DRO >C10-C28	17000	100	09/01/2013	ND	205	102	200	5.30	
Surrogate: 1-Chlorooctane	95.9 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	872 %	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



RICE ENVIRONMENTAL CONSULTING & SAFETY HACK CONDER 419 W. CAIN HOBBS NM. 88240

Fax To:

(575) 397-1471

Analyzed By: CK

Received:

08/26/2013

Sampling Date:

08/23/2013

Reported:

BTEX 82608

09/03/2013

Sampling Type:

Soil

Project Name:

H. E. WEST B #4 BATTERY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

mg/kg

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: POINT 2 @ 6" (H302052-05)

512X 02005	9	·-9	Anaryzo	a by rent					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2013	ND	2.22	111	2.00	13.0	
Toluene*	<0.050	0.050	08/29/2013	ND	2.11	105	2.00	9.88	
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	2.05	102	2.00	10.5	
Total Xylenes*	<0.150	0.150	08/29/2013	ND	6.12	102	6.00	9.59	
Total BTEX	<0.300	0.300	08/29/2013	ND					
Surrogate: Dibromofluoromethane	101	% 61.3-14	2			• • • • • • • • • • • • • • • • • • • •			
Surrogate: Toluene-d8	100	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	104	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	08/30/2013	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: AR/					S-04
. Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	09/01/2013.	ND	210	105	200	4.91	
DRO >C10-C28	7070	100	09/01/2013	ND	205	102	200	5.30	
Surrogate: 1-Chlorooctane	96.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	235	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



RICE ENVIRONMENTAL CONSULTING & SAFETY HACK CONDER 419 W. CAIN

HOBBS NM, 88240

Fax To: (575) 397-1471

Received:

08/26/2013

Sampling Date:

08/23/2013

Reported:

09/03/2013

Sampling Type:

Soil

Project Name:

H. E. WEST B #4 BATTERY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: POINT 2 @ 1' (H302052-06)

BTEX 8260B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2013	ND ·	2.22	111	2.00	13.0	
Toluene*	<0.050	0.050	08/29/2013	ND	2.11	105	2.00	9.88	
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	2.05	102	2.00	10.5	
Total Xylenes*	<0.150	0.150	08/29/2013	ND	6.12	102	6.00	9.59	
Total BTEX	<0.300	0.300	08/29/2013	ND					
Surrogate: Dibromofluoromethane	104	% 61.3-14	2						
Surrogate: Toluene-d8	102	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	106	% 65.7-14	1						,
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	08/30/2013	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: AR/			···		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2013	ND	210	105	200	4.91	
DRO >C10-C28	749	10.0	08/30/2013	ND	205	102	200	5.30	
Surrogate: 1-Chlorooctane	102	% 65.2-14	0	,					
Surrogate: 1-Chlorooctadecane	115	% 63.6-15	4						

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Celey D. Keine



RICE ENVIRONMENTAL CONSULTING & SAFETY HACK CONDER 419 W. CAIN

HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

DTEV GOCOD

08/26/2013

Sampling Date:

08/23/2013

Reported:

09/03/2013

Sampling Type:

Soil

Project Name:

H. E. WEST B #4 BATTERY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: POINT 3 @ SURFACE (H302052-07)

BTEX 8260B	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2013	ND	2.22	111	2.00	13.0	
Toluene*	<0.050	0.050	08/29/2013	ND	2.11	105	2.00	9.88	
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	2.05	102	2.00	10.5	
Total Xylenes*	<0.150	0.150	08/29/2013	ND	6.12	102	6.00	9.59	
Total BTEX	<0.300	0.300	08/29/2013	ND					
Surrogate: Dibromofluoromethane	103 :	% 61.3-14	22						
Surrogate: Toluene-d8	101	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	106	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/30/2013	ND	400	100	400	3.92	
TPH 8015M	mg,	'kg	Analyze	d By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2013	ND	210	105	200	4.91	•
DRO >C10-C28	<10.0	10.0	08/30/2013	ND	205	102	200	5.30	
Surrogate: 1-Chlorooctane	91.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	94.0	% 63.6-15	4						

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Celey D. Kuna



RICE ENVIRONMENTAL CONSULTING & SAFETY **HACK CONDER** 419 W. CAIN HOBBS NM, 88240

(575) 397-1471 Fax To:

Received:

08/26/2013

Sampling Date:

08/23/2013

Reported:

Sampling Type:

Soil

Project Name:

09/03/2013

Sampling Condition:

Cool & Intact

Project Number:

H. E. WEST B #4 BATTERY NONE GIVEN

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: POINT 4 @ SURFACE (H302052-08)

BTEX 8260B	mg,	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier `
Benzene*	<0.050	0.050	08/29/2013	ND	2.22	111	2.00	13.0	
Toluene* .	< 0.050	0.050	08/29/2013	ND	2.11	105	2.00	9.88	
Ethylbenzene*	< 0.050	0.050	08/29/2013	ND	2.05	102	2.00	10.5	
Total Xylenes*	<0.150	0.150	08/29/2013	ND	6.12	102	6.00	9.59	
Total BTEX	<0.300	0.300	08/29/2013	ND					
Surrogate: Dibromofluoromethane	101	% 61.3-14	2 .						
Surrogate: Toluene-d8	100	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	107	% 65.7-14	1						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	08/30/2013	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2013	ND	210	105	200	4.91	
DRO >C10-C28	<10.0	10.0	08/30/2013	ND	205	102	200	5.30	
Surrogate: 1-Chlorooctane	94.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	95.3	% 63.6-15	4		•				

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Celeg & Keens



RICE ENVIRONMENTAL CONSULTING & SAFETY HACK CONDER 419 W. CAIN HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

08/26/2013

Sampling Date:

08/23/2013

Reported:

09/03/2013

Sampling Type:

Soil

Project Name:

H. E. WEST B #4 BATTERY

Sampling Condition:

Project Number:

NONE GIVEN

Sample Received By:

Cool & Intact Jodi Henson

NOT GIVEN

Project Location:

Sample ID: POINT 4 @ 6" (H302052-09)

BTEX 8260B	mg	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	08/29/2013	ND	2.22	111	2.00	13.0	
Toluene*	< 0.050	0.050	08/29/2013	NĐ	2.11	105	2.00	9.88	•
Ethylbenzene*	< 0.050	0.050	08/29/2013	ND	2.05	102	2.00	10.5	
Total Xylenes*	<0.150	0.150	08/29/2013	ND	6.12	102	6.00	9.59	
Total BTEX	<0.300	0.300	08/29/2013	ND					
Surrogate: Dibromofluoromethane	106	% 61.3-14	12						
Surrogate: Toluene-d8	100	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	105	% 65.7-14	11						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP			· · · · · · · · · · · · · · · · · · ·		
. Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/30/2013	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2013	ND	210	105	200	4.91	
DRO >C10-C28	321	10.0	08/30/2013	ND	205	102	200	5.30	
Surrogate: 1-Chlorooctane	98.4	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	130	% 63.6-15	4						

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Celeg D. Keine



Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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

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Celey D. Keene

ARDINAL 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	: RFCS			1 1 B	LL TO			•			ANAL	YSIS	3 RE	QUE	ST			
	": Jacob Kamplain			P.O. #:										Ī		-		
Address:				Company:							S	· ·					İ	
City: Hobbs	State: NM	Zip: 8	8240	Attn:							on							
Phone #:	Fax #:			Address:							'n					-		
Project #:	Project Owne	r:		City:				⋝		╽┰╽	S//							
Project Name:				State:	Zip:			5		ם) Ju					.		
Project Location	: H.E. West B#4 batte	ry		Phone #:			Chlorides	8015	BTEX	Texas TPH	atic	TDS	ř				,	
Sampler Name:				Fax #:			은	8	BĪ	ä	ပိ	F						
FOR LAB USE ONLY			MATRIX	PRESERV	SAMPLI	NG	[[]	ТРН		<u>(</u>	te		ļ	·		l	į	
Lab I.D. H <i>302</i> 052	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS	8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	OTHER: ACID/BASE: ICE/COOL OTHER:	DATE	TIME					Complete Cations/Anions		·					
<u> </u>	Point 1@ Surface	61		K	8-23-13	11:00	X_{-}	X	\mathcal{N}									
2	Point 1 @ 6"	61	X	N.		11:30	W.	4	X.									
3	Point 1@ 1'	61		I X	$\sqcup \bot$	11:35	X.	LY.	N,									
4	Point 2@ Surface	61		X		11:05	K,	X	1X)					ļ				
5	Point 2@6"	61	N.	K,	├	11:40	K.	I X	X,	<u> </u>			ļ	 				· .
6	Point Za 1'	61	N N			11:50	X,	X	Q/					<u> </u>				
7	Point 3@ surface	191	X		1	11:10	K	X,	X				•	-				
3	Point4@ Surface	61		X		11:25	W,	K.	*			ļ	-				·	· · ·
	Point4@ 6"	61		X	 	11:45	X	_X_	Ц.	<u> </u>								
PLEASE NOTE: Liability as	nd Damages. Cardinal's liability and client's exclusive remedy for	ny claim aris	sing whether based in contract	t or tort, shall be limited	to the amount pai	d by the client for	the	لـــــا					<u> </u>	<u> </u>				

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Relinquished By:		Received By:	Phone Result: ☐ Yes ☑ No Add'l Phone #:
	8-26-13	And Man	Fax Result: ☐ Yes ☑ No Add'I Fax #:
1 V 1 < h	Time: 10 G	Man Donson	REMARKS:
Kyle Schuaidt	Data:	Received By:	
Relinquished By:	Date:	Meceived by:	kschnaidt@rice-ecs.com
	Time:	·	Knorman@rice-ecs.com
5 11 5 15 15 15 15 15 15 15 15 15 15 15	<u> </u>		Kjones@riceswd.com; jkamplain@rice-ecs.com
Delivered By: (Circle One)		Sample Condition CHECKED	
Sampler - UPS - Bus - Other:	-D	Cool intact Ves U ves No No No	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com

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







December 17, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: H. E. WEST B #4 AD PASTURE

Enclosed are the results of analyses for samples received by the laboratory on 12/10/13 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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/ga/lab_accred_certif.html.

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 (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg & Keine

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

Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY JACOB KAMPLAIN

419 W. CAIN -HOBBS NM, 88240

Fax To: (575) 397-1471

12/10/2013

Reported: 12/17/2013
Project Name: H. E. WEST B #4 AD PASTURE

Project Number: NONE GIVEN
Project Location: NOT GIVEN

Received:

Sampling Date:

Sampling Type:

12/10/2013

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Jodi Henson

Sample ID: 5 PT. COMP BACKFILL (H302981-01)

Chloride, SM4500CI-B	mg,	rkg	Anaiyze	а ву: АР		· · · · · · · · · · · · · · · · · · ·			
Anaiyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/16/2013	ND	400	100	400	3.92	,

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



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 $6^{\rm o}{\rm C}$

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

Company Name	mpany Name: RECS					and the second	BILL TO					ANALYSIS REQUEST											
Project Manage	Manager: Jacob Kamplain					/	P.O. #:												~	,			
Address:					- (Company:				Ť			S	ľ].							
City: Hobbs	State: NM	Zip	: 88	240		/	Attn:			.				o		'					į · [
				7	Address:				'			Ě					· · · ·						
Project #:					- 1	City:				Σ			🐇						.				
Project Name:					State	:		Zip:		Chlorides			ایترا	Cations/Anions	1			1					
Project Location	n: HE Wast B#4 AD DO	c ‡	ع سمده	p		ı	Phone #:				ri-	8015	BTEX	Texas TPH	₩	TDS							
Project Location: H.E. Wost B # 4 Al pasture Sampler Name: Kyle Schnaidt				F	Fax #:			일	8	교	Ö	ပိ	=				1	1					
FOR LAB USE ONLY					MATRI	(PRESERV SAMPLING			Ö	TPH	_ @ <u>o</u>			İ	ļ							
Lab I.D. H302981	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER SOIL OIL	SLUDGE	OTHER: ACID/BASE	ICE / COOL	OTHER:	DATE	TIME		1			Complete							
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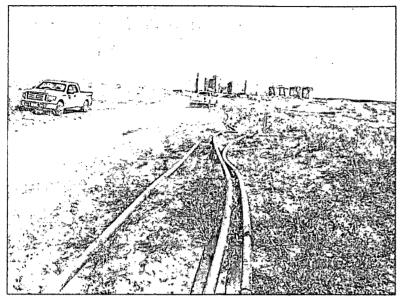
tione increase by barrantal,	, regulated of thicater sady class is suspect appropriately of the above stated les	Soni o Validinae.
ate: Reg	geived By:	Phone Result: Yes No Add' Phone #:
-10-13		Fax Result: ☐ Yes ☑ No Add'l Fax #:
me: / /	W/ WOULD DO	REMARKS:
4.10 PM	wen grewall	
ate: Ref	celved By:	email results
		Knorman@rice-ecs.com
me:		
		Kjones@riceswd.com; jkamplain@rice-ecs.com
	Sample Condition CHECKED BY:	ryones@nceswd.com, jkampiam@nce-ecs.com
•	Cool Intact (Initials)	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com
•	Thes Thes 177	nconder@nce-ecs.com, Ewellhelmer@nce-ecs.com
	I No I No	
	4:15	Received By: Te: 15 WWW HELDON Received By:

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

Appendix D Photo Documentation

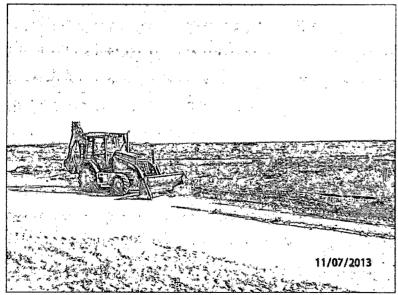
Linn H.E. West B #4 Battery - West B 38

Unit Letter F, Section 10, T17S, R31E



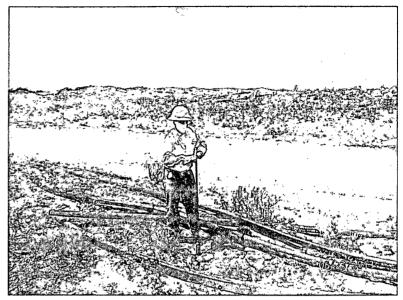
Initial release area, facing north

8/23/13



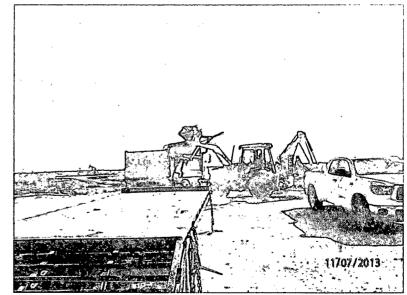
Scraping the site, facing northeast

11/7/13



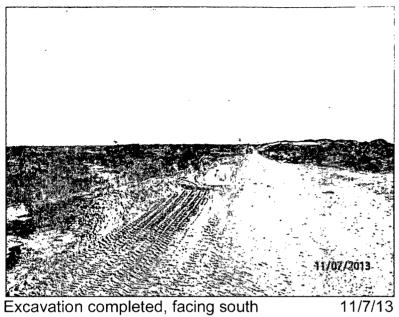
Hand auguring for depth, facing southwest

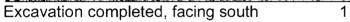
8/23/13

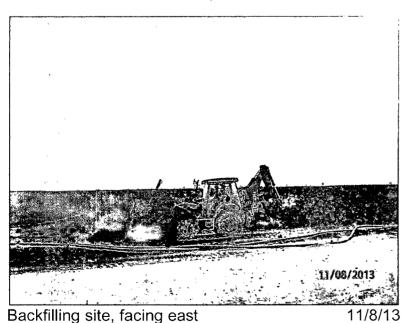


Exporting soil, facing southeast

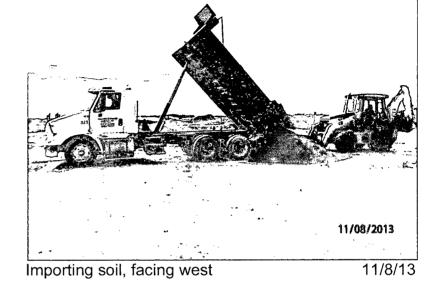
11/7/13

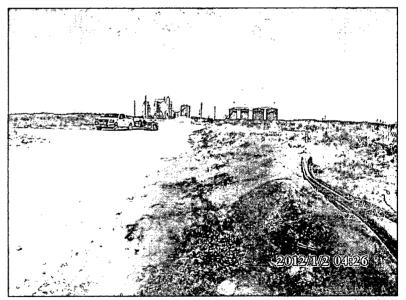






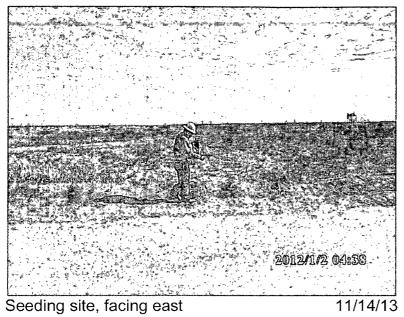
Backfilling site, facing east



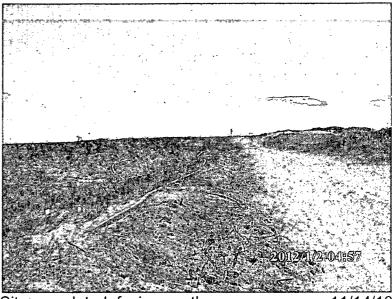


Soil amendments added, facing north

11/14/13







Site completed, facing south 11/14/13

Appendix E Final C-141

District I 1625 N. French Dr., Hobbs, NM 88240 RECEIVED District II 811 S. First St., Artesia, NM 88210

1000 Rio Brazos Road, Aztec, NM \$7410

1220 S. St. Francis Dr., Santa Fe, NA

District III

District IV

State of New Mexico JAN 08 2014 Minerals and Natural Resources

Of Conservation Division NMOCD ARTESIA 20 South St. Francis Dr. Santa Fe, NM 87505



ARTESIA

· · · · · ·			Rele	ase Notific	ation	and Co	rrective A	ction	<u> </u>						
				,		OPERAT			Initia	ıl Report	\boxtimes	Final Report			
		nn Operatin ider Blvd., H	~	1 88240		Contact Brian Wall Telephone No. (806) 367-0645									
		est B #4 Bat				Facility Type Battery									
Surface Ow	ner Feder	ral		Mineral O	wner 1										
				<u> </u>		OF REI	EASE		1.1.2						
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/V	Vest Line	County					
F	10	178	31E	2085	N	orth	1980	We	st	Eddy					
Latitude_32.850600037686 Longitude103.859729591584_															
	NATURE OF RELEASE														
Type of Rele	ase Produc	ced Water/Oil		NAI	UKE		Release 5 gal/ 5	gal	Volume F	Recovered (0/ 0				
Source of Re	lease Poly	Pipeline				Date and H 8/16/2013	our of Occurrenc	е	Date and 7:00 pm	Hour of Dis	covery	8/16/2013			
Was Immedia	ate Notice (Vac 🗆	No 🗌 Not Re	owired	If YES, To Mike Burto	Whom?		7.00 pm						
By Whom?	Brian Wall		103 🔲				our 8/19/2013 2	2:00 pm							
Was a Water		ched?	v 1	N.T.	·-·-		lume Impacting t				-				
☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.*															
If a watercot	irse was im	pacted, Descr	ibe Fully.*												
Describe Cause of Problem and Remedial Action Taken.* Flow line from West B 41 had developed a pin hole going to the West B #4 Tank Battery on south side of battery. Possible cause fatigue. Line was repaired.															
were on site to were field tes 4 returned lat surface. Gas below regula (CAP) was su On November yards was extaken to a col November 14 I hereby certiregulations at	to assess the sted for chick coratory chooline Range tory standar ubmitted to ear 7 th , 2013, ported to a mmercial lath, 2013, so fy that the III operators	e release. Fou orides and for loride reading e Organics (Glands except for NMOCD and RECS person NMOCD approboratory and oil amendment information giare required t	r points wi organic va s below 1,4 RO) and B Point 1 at BLM. No anel were of roved facil returned a s were ado ven above o report an	thin the release we pors using a PID 2000 mg/kg at 6 in TEX readings at the surface and Pot MOCD approved on site to begin the ity. 36 yards of chloride value of led to the soil and is true and compud/or file certain reading a property of the certain reading and the soil and th	meter. Inches bgs all points oint 2 at the CAP e correct lean soil non-dete the site lete to the elease no	pled at the surfice and Point 3 is at all depths the surface a con October ive actions. Was imported to the surfice was seeded vie best of my otifications as	knowledge and und perform correc	f the poormerc cory chlo. Diese in Septe LM apprarea warea warea so id conto	ints were said laboratoride reading I Range Organiser 1 Range Organiser 2 Range Orga	ampled with ry for analysing below 1,0 ganics (DRC 013 a Correct AP on Septe down 6 inch sampled of ti surrounding	depth. sis. Poi on mg/00 mg/0) readictive Acember 2 es and she back location OCD reading may er	The samples ints 1, 2 and kg at the ngs were ection Plan 16th, 2013. a total of 56 cfill was on. On the sand indanger			
public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.															
	FINN P	Wa//					OIL CON	SEK V	AHON	DISISIC	<u> JIN</u>				
Signature:	Signature: Fred B Wall Approved by Environmental Specialist:														
Printed Name	e: Brian W	/all					Divironmental 5	pecians							
Title: Constr	ruction Fore	eman II				Approval Da	e:		Expiration	Date:					
E-mail Addre	Address: Bwall@linnenergy.com Conditions of Approval: Attached								•						
Date: 1-8-	Date: 1-8-14 Phone: (806) 367-0645														

^{*} Attach Additional Sheets If Necessary

Bratcher, Mike, EMNRD

From:	Burton, Michael <mburton@blm.gov></mburton@blm.gov>
Sent:	Thursday, January 09, 2014 9:50 AM
To:	Lara Weinheimer
Cc:	Bratcher, Mike, EMNRD
Subject:	Re: Termination Request for the Linn HE West B #4 Battery - West B 38 (2RP-1864)
Lara,	
	request is approved.
Tthanks	
Mike Burton	
BLIN-CFO	
Environmental I	Protection Specialist
575-234-2226 of	
575-361-3574 ce	e <i>ll</i>
mburton@blm.ge	<u>ov</u>
not the intended re any review, disser herein, is prohibite	ATY NOTICE: The information in this email may be confidential and/or privileged. If you are ecipient or an authorized representative of the intended recipient, you are hereby notified that mination or copying of this email and its attachments, if any, or the information contained ed. If you have received this email in error, please immediately notify the sender by return his email from your system. Thank you.
	•
On Wed, Jan 8, 20	114 at 7:48 AM, Lara Weinheimer < lweinheimer@rice-ecs.com > wrote:
NU13129MB	
	the Termination Request for the Linn HE West B #4 Battery – West B 38. If you have any et us know. Otherwise, we await your approval.
Thanks!	
Loro Wainhaire	
Lara Weinheimer	
Rice Environment	tal Consulting & Safety
Project Scientist	
. roject seremust	

419 West Cain

Hobbs, NM 88240

(575) 441-0431