

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	ConocoPhillips Company	Contact	SEAN ROBINSON
Address	3300 North A St. Bldg 6, Midland TX 79705	Telephone No.	(575) 391-3147
Facility Name	EVGSAU 3467-018	Facility Type	Oil and Gas

Surface Owner	State	Mineral Owner	State	API No.	3002502999
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	34	17S	35E	676	FNL	1968	FEL	Lea

Latitude 32°47'48.278"N Longitude 103°26'35.753"W

NATURE OF RELEASE

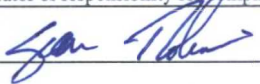

Type of Release	Produced Water	Volume of Release	572.1 bbls	Volume Recovered	240 bbls
Source of Release	Failed threaded section on fiberglass changeover	Date and Hour of Occurrence	1/26/12 1717 hrs	Date and Hour of Discovery	1/27/12 0620 hrs
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey Leking, NMOCD		
By Whom?	John Gates	Date and Hour	1/27/12 0900 hrs		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* A 2 7/8" to 2" fiberglass changeover in the threaded section of the 2" end failed where the changeover was screwed into the 2" fiberglass flange.

Describe Area Affected and Cleanup Action Taken.\* A total of 155,658 sq ft of pasture land and lease pad was affected. RECS was assigned the project from another environmental company. That company installed 25 soil bores at the site and two background samples beginning on February 2<sup>nd</sup>, 2012. The samples from the bores were taken to a commercial laboratory for analysis. Based on the soil bore data, that environmental company wrote a Work Plan for a path forward for the site on May 2<sup>nd</sup>, 2013. RECS was assigned the project June 24<sup>th</sup>, 2013. RECS submitted an Addendum to the Work Plan on July 1<sup>st</sup>, 2013. RECS recommended that ConocoPhillips excavate approximately 117,215 sq ft of the site to 4 ft below ground surface (bgs) and approximately 82,284 sq ft of the site to 3 ft bgs. NMOCD approved the Addendum to the Work Plan on July 9<sup>th</sup>, 2013. Excavation for liner installation began on June 25<sup>th</sup>, 2013 under the previous Work Plan. Once the new Work Plan was approved on July 9<sup>th</sup>, 2013, ConocoPhillips continued working under the new plan. The site was excavated to either 3 ft bgs or 4 ft bgs based on the Plan's specifications. As each excavation was dug, wall samples were taken to a commercial laboratory to verify that the walls were below laboratory chloride readings of 250 mg/kg. In the cases where the laboratory chloride levels in the walls were too high, the wall was excavated further until samples were obtained below 250 mg/kg. As the site was dug, the excavated soil was screened to remove the rock from the soil. 26,973 yards of the resultant soil was taken to a NMOCD approved facility for disposal. Samples of the screened rock were taken to a commercial laboratory for analysis and returned chloride values of 64 mg/kg and non-detect. The rock was piled on site to use as backfill. At SB-22, the site was excavated another foot to 4 ft bgs. This was to remove elevated chloride soils from this area. Once each area was excavated, a 1 foot thick clay layer was installed at the base of each excavation. A total of 8,247 yards of clay was imported to the site to install the clay barrier. A sample of the clay was taken to a commercial laboratory for analysis and returned a chloride result of non-detect. In the 4 ft bgs sections, the excavated, screened rock was backfilled over the clay layer to 3 ft bgs. In the 4 ft pasture sections to the west, rock was not installed over the clay layer because all the rock had been used in the previous excavations. On August 19<sup>th</sup>, 2013, NMOCD verbally approved the site to be backfilled. 18,903 yards of top soil was imported to the site to serve as the remaining backfill for each excavation. A sample of the top soil was taken to a commercial laboratory for analysis and returned a chloride result of 16 mg/kg. The top soil was backfilled over the 3 ft and 4 ft excavations and contoured to the surrounding location. On October 9<sup>th</sup>, 2013, the site was seeded with a blend of native vegetation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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.

Signature:		OIL CONSERVATION DIVISION	
Printed Name:	SEAN ROBINSON	Approved by Environmental Specialist 	
Title:	OPERATIONS SUPERVISOR	Approval Date:	11/26/13
E-mail Address:	strobin@conocophillips.com	Expiration Date:	-
Date:	11-18-13	Conditions of Approval:	-
Phone:	(575) 391-3147	Attached	<input type="checkbox"/>
		IRP-1-12-2780	

\* Attach Additional Sheets If Necessary



District I  
1625 N French Dr., Hobbs, NM 88240  
District II  
1301 W Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S St Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

HOBBS OCD

JAN 30 2012

RECEIVED

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

## Release Notification and Corrective Action

### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	ConocoPhillips Company	Contact	John W. Gates
Address	3300 North A St. Bldg 6, Midland, TX 79705-5406	Telephone No.	505.391.3158
Facility Name	EVGSAU 3467-018	Facility Type	Oil and Gas

Surface Owner	State Of New Mexico	Mineral Owner	State Of New Mexico	Lease No	300250299900
---------------	---------------------	---------------	---------------------	----------	--------------

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	34	17S	35E					Lea

Latitude 32degrees 47' 48.4" Longitude 103degrees 26' 35.1"

### NATURE OF RELEASE

Type of Release <b>Produced Water</b>	Volume of Release 572.1bbl (0oil, 572.1 bbls/water)	Volume Recovered (0oil, 240 bbls/water)
Source of Release <b>Failed threaded section on a 2 7/8" X 2" fiberglass changeover into a 2" fiberglass flange</b>	Date and Hour of Occurrence 1/26/12 1717	Date and Hour of Discovery 1/27/12 0620
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Geoffrey Leking NMOCD</b>	
By Whom? <b>John Gates</b>	Date and Hour <b>1/27/12 0900</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

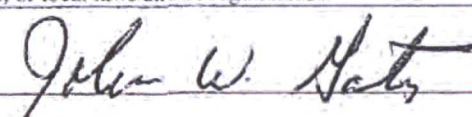
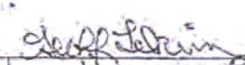
Describe Cause of Problem and Remedial Action Taken.\*

**It was determined that the release originated from a 2 7/8" to 2" fiberglass changeover in the threaded area on the 2" end where the changeover was screwed into a 2" fiberglass flange.**

Describe Area Affected and Cleanup Action Taken.\*

**The affected area is a 423' X 423' X 2" area of well pad and pasture land. Vacuum trucks were called and ~240 bbls of produced water was recovered.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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.

Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: John W. Gates	Approved by <b>ENV SPECIALIST:</b>  District Supervisor	
Title: HSER Lead	Approval Date: 1/30/12	Expiration Date: 3/30/12
E-mail Address: John.W.Gates@conocophillips.com	Conditions of Approval: <b>DELIVERATE RELEASE HORIZONTALLY AND VERTICALLY. SUBMIT FINAL C-141 BY 3/30/12.</b>	Attached <input type="checkbox"/> <b>IRP-1-12-2780</b>
Date: 01/30/12 Phone: 505.391.3158		

• Attach Additional Sheets If Necessary



# Rice Environmental Consulting & Safety

P.O. Box 2948, Hobbs, NM 88241  
Phone 575.393.2967

**November 13<sup>th</sup>, 2013**

## **Geoffrey Leking**

New Mexico Energy, Minerals, & Natural Resources  
Oil Conservation Division, Environmental Bureau – District 1  
1625 N. French Dr.  
Hobbs, NM 88240-9273

**RE: Termination Request**  
**ConocoPhillips EVGSAU 3467-018 (1RP-1-12-2780)**  
**UL/B sec. 34 T17S R35E**  
**API No. 300250299900**

Mr. Leking:

ConocoPhillips 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 3.5 miles east of Buckeye, New Mexico at UL/B sec. 34 T17S R35E. NM OSE and BLM records indicate that groundwater will likely be encountered at a depth of approximately 55 +/- feet.

On January 26<sup>th</sup>, 2012, a threaded section on a 2 7/8 inch x 2 inch fiberglass changeover as it went into a 2 inch fiberglass flange failed releasing 572.1 barrels of produced water onto the lease pad and adjacent pasture. A total of 155,658 sq ft of pasture land and lease pad was affected. Vacuum trucks were called to the site and recovered 240 barrels of produced water. NMOCD – District 1 was informed of the release on January 27<sup>th</sup>, 2012 and an initial C-141 was sent and approved on January 30<sup>th</sup>, 2012 (Appendix A).

RECS was assigned the project from another environmental company. The previous company installed 25 soil bores at the site and two background samples beginning on February 2<sup>nd</sup>, 2012 (Figure 1). The samples from the bores were taken to a commercial laboratory for analysis (Appendix B). Based on the soil bore data, that environmental company wrote a Work Plan for a path forward for the site on May 2<sup>nd</sup>, 2013.

RECS was assigned the project June 24<sup>th</sup>, 2013. RECS submitted an Addendum to the Work Plan on July 1<sup>st</sup>, 2013. RECS recommended that ConocoPhillips excavate approximately 117,215 sq ft of the site to 4 ft below ground surface (bgs) and approximately 82,284 sq ft of the site to 3 ft bgs (Figure 2). The depths of the excavations were based on NMOCD's photo documentation of the areas where the release pooled and on the soil bore data results in Figure 1. The excavated soil would be screened to remove the rock from the soil. A one foot thick clay layer would be installed and properly seated throughout the excavation. Over the 4 ft bgs area, a one foot layer of rock would be installed over the clay



layer and then the entire excavation would be backfilled with 2 feet of top soil to the surface. Top soil would be imported to the site to provide the backfill material. The site would be contoured to the surrounding area and then seeded with a blend of native vegetation. Vegetation above the liner would also provide a natural infiltration barrier for the site since plants capture water through their roots thereby reducing the volume of water moving through the vadose zone to groundwater. NMOCD approved the Addendum to the Work Plan on July 9<sup>th</sup>, 2013.

Excavation for liner installation began on June 25<sup>th</sup>, 2013 under the previous Work Plan. Once the new Work Plan was approved on July 9<sup>th</sup>, 2013, ConocoPhillips continued working under the new plan. The site was excavated to either 3 ft bgs or 4 ft bgs (Figure 2). As each excavation was dug, wall samples were taken to a commercial laboratory to verify that the walls were below laboratory chloride readings of 250 mg/kg. In the cases where the laboratory chloride levels in the walls were too high, the wall was excavated further until samples were obtained below 250 mg/kg (Appendix C).

As the site was dug, the excavated soil was screened to remove the rock from the soil. 26,973 yards of the resultant soil was taken to a NMOCD approved facility for disposal. Samples of the screened rock were taken to a commercial laboratory for analysis and returned chloride values of 64 mg/kg and non-detect (Appendix C). The rock was piled on site to use as backfill. At SB-22, the site was excavated another foot to 4 ft bgs. This was to remove elevated chloride soils from this area.

Once each area was excavated, a 1 foot thick clay layer was installed at the base of each excavation. A total of 8,247 yards of clay was imported to the site to install the clay barrier. A sample of the clay was taken to a commercial laboratory for analysis and returned a chloride result of non-detect. In the 4 ft bgs sections, the excavated, screened rock was backfilled over the clay layer to 3 ft bgs. In the 4 ft pasture sections to the west, rock was not installed over the clay layer because all the rock had been used in the previous excavations. On August 19<sup>th</sup>, 2013, NMOCD verbally approved the site to be backfilled. 18,903 yards of top soil was imported to the site to serve as the remaining backfill for each excavation. A sample of the top soil was taken to a commercial laboratory for analysis and returned a chloride result of 16 mg/kg. The top soil was backfilled over the 3 ft and 4 ft excavations and contoured to the surrounding location. On October 9<sup>th</sup>, 2013, the site was seeded with a blend of native vegetation.

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

The site has been excavated to remove the majority of contaminated soil. A 1 foot thick clay layer was installed over the release to inhibit the downward migration of remaining constituents in the vadose zone to groundwater. The site was backfilled with clean, imported soil and seeded with a blend of native vegetation. Therefore, RECS on behalf of ConocoPhillips respectfully requests 'remediation termination' or similar site closure status for the site. A 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,

A handwritten signature in purple ink, appearing to read 'J.C.W.' followed by a stylized flourish.

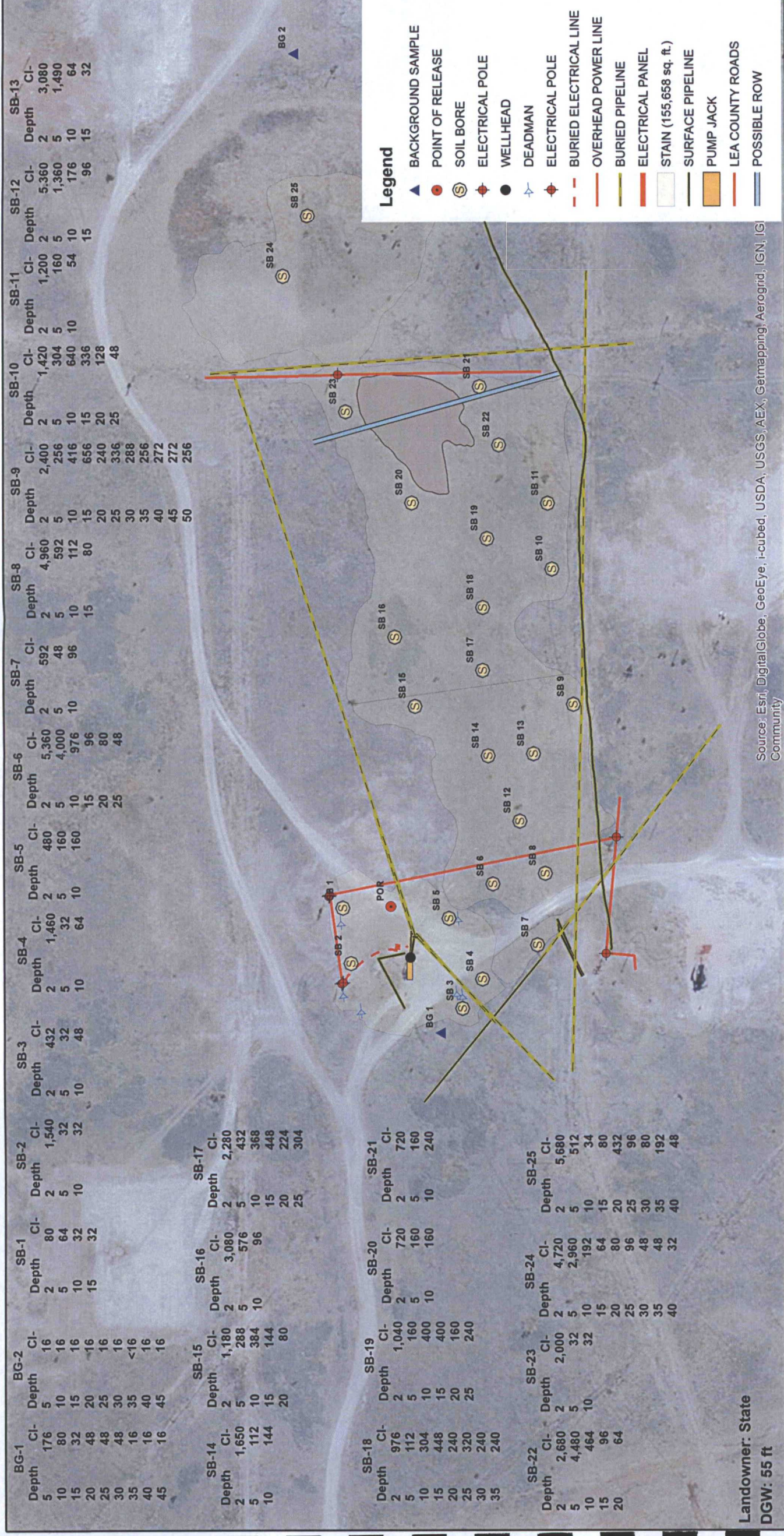
Lara Weinheimer  
Project Scientist  
RECS  
(575) 441-0431

Attachments:

- Figure 1 – Soil Bore Installation Map
- Figure 2 – Excavation Map
- Appendix A – Initial C-141
- Appendix B – Soil Bore Installation Lab
- Appendix C – Work Plan Sampling Labs
- Appendix D – Photo Documentation
- Appendix E – Final C-141



# Soil Bore Installation









### Summary of Soil Borings Soil Sample Field Analyses and Laboratory Analytical Results

EVGSAU Tract 3467-018 Release Area - UL-B (NW1/4 of the NE1/4) of Section 34, T17S R32E; Lea County, New Mexico

[illegible]



### Summary of Soil Borings Soil Sample Field Analyses and Laboratory Analytical Results.

EVGSAU Tract 3467-018 Release Area - UL-B (NW1/4 of the NE1/4) of Section 34, T17S R32E; Lea County, New Mexico  
 NMOCID #: EPI Ref. #150036

[illegible]



### Summary of Soil Borings Soil Sample Field Analyses and Laboratory Analytical Results

EVGSAU Tract 3467-018 Release Area - UL-B (NW1/4 of the NE1/4) of Section 34, T17S R32E; Lea County, New Mexico

NMOC#; EPI Ref. #150036

[illegible]



### Summary of Soil Borings Soil Sample Field Analyses and Laboratory Analytical Results

EVGSAU Tract 3467-018 Release Area - UL-B (NW1/4 of the NE1/4) of Section 34, T17S R32E; Lea County, New Mexico  
NMOCD #: EPI Ref. #150036

[illegible]



### Summary of Soil Borings Soil Sample Field Analyses and Laboratory Analytical Results

EVGSAU Tract 3467-018 Release Area - UL-B (NW1/4 of the NE1/4) of Section 34, T17S R32E; Lea County, New Mexico

NMOC#; EPI Ref. #150036

[illegible]



### Summary of Soil Borings Soil Sample Field Analyses and Laboratory Analytical Results

EVGSAU Tract 3467-018 Release Area - UL-B (NW1/4 of the NE1/4) of Section 34, T17S R32E; Lea County, New Mexico

NMOC#; EPI Ref. #150036

[illegible]



### Summary of Soil Borings Soil Sample Field Analyses and Laboratory Analytical Results

EVGSAU Tract 3467-018 Release Area - UL-B (NW1/4 of the NE1/4) of Section 34, T17S R32E; Lea County, New Mexico  
NMOCB #: EPI Ref. #150036

[illegible]



## Summary of Soil Borings Soil Sample Field Analyses and Laboratory Analytical Results

EVGSAU Tract 3467-018 Release Area - UL-B (NW1/4 of the NE1/4) of Section 34, T17S R32E; Lea County, New Mexico

[illegible]



### Summary of Soil Borings Soil Sample Field Analyses and Laboratory Analytical Results

EVGSAU Tract 3467-018 Release Area - UL-B (NW1/4 of the NE1/4) of Section 34, T17S R32E; Lea County, New Mexico

NMOCD #: EPI Ref. #150036

[illegible]

**Bolded values are in excess of NMOCD Remediation Thresholds**

SBH - South Bore Hole

J = Detected, but below Reporting Limits. Therefore, result is an estimated concentration (CLP J-Flag)

— = Not Analyzed; ND - Not Detected





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

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June 28, 2013

HACK CONDER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: CONOCO

Enclosed are the results of analyses for samples received by the laboratory on 06/27/13 16:35.

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](http://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 that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
HACK CONDER  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 06/27/2013  
Reported: 06/28/2013  
Project Name: CONOCO  
Project Number: EVGSAU #3467-018  
Project Location: NONE GIVEN

Sampling Date: 06/27/2013  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: ROCK (H301533-01)**

Chloride, SM4500Cl-B

mg/kg

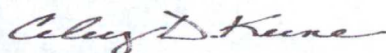
Analyzed By: DW

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/28/2013	ND	432	108	400	0.00	

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. Keene, Lab Director/Quality Manager



**Notes and Definitions**

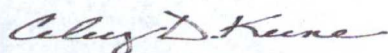
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

---

Cardinal Laboratories

\*=Accredited Analyte

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. Keene, Lab Director/Quality Manager







July 01, 2013

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: EBGSAU 3467-018

Enclosed are the results of analyses for samples received by the laboratory on 06/28/13 14:55.

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](http://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,



Celey D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 06/28/2013  
Reported: 07/01/2013  
Project Name: EBGSAU 3467-018  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 06/28/2013  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: ROCK SAMPLE #2 (H301541-01)**

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/01/2013	ND	400	100	400	0.00	

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. Keene, Lab Director/Quality Manager



**Notes and Definitions**

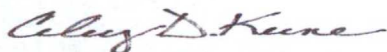
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

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Cardinal Laboratories

\* = Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager





REC

Hack Condor

**Address:**

City:

phon

Project #:

Project Name:

**Project Location:**

Sampler Name: Robert Egan

**FOR LAB USE ONLY**

**Lab I.D.**

## Sample I.D.

1751541

Rock sample #2

Please Push

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Relinquished By: *Robert J. [Signature]*

Date: 10/28/13  
Time: 5:55  
Date:

Received By: *[Signature]* Received By:

Me

1000

Phone Result: \_\_\_\_\_  
Fax Result: \_\_\_\_\_  
REMARKS: \_\_\_\_\_

Phone Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Phone #:
Fax Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Fax #:
REMARKS: Please Email <i>Wander</i>			

Delivered By: (Circle One)

**Sampler - UPS - Bus - Other:**

+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



July 11, 2013

HACK CONDER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: CONOCO EVGSAU - 3467-018

Enclosed are the results of analyses for samples received by the laboratory on 07/01/13 9:00.

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](http://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,



Celey D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
HACK CONDER  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 07/01/2013  
Reported: 07/11/2013  
Project Name: CONOCO EVGSAU - 3467-018  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 06/27/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: N WALL W END 50' (H301546-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/09/2013	ND	432	108	400	0.00	

**Sample ID: N WALL W END 75' (H301546-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/09/2013	ND	432	108	400	0.00	

**Sample ID: N WALL W END 125' (H301546-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	07/09/2013	ND	432	108	400	0.00		

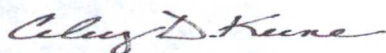
**Sample ID: N WALL W END 150' (H301546-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/09/2013	ND	432	108	400	0.00		

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 HACK CONDER  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

 Received: 07/01/2013  
 Reported: 07/11/2013  
 Project Name: CONOCO EVGSAU - 3467-018  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 06/27/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: N WALL W END 175' (H301546-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/09/2013	ND	432	108	400	0.00	

**Sample ID: S WALL E END 725' (H301546-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/09/2013	ND	432	108	400	0.00	

**Sample ID: S WALL E END 750' (H301546-07)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/09/2013	ND	432	108	400	0.00	


**Sample ID: S WALL E END 775' (H301546-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/09/2013	ND	432	108	400	0.00	

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

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Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Company Name: RECS		P.O. #:		Company:		P.O. #:		ANALYSIS REQUEST	
Project Manager: Host Conder		State: Zip:		Attn:		Address:			
Address:		City:		Project Owner:		Phone #:			
City:		State: Zip:		Fax #:		Phone #:			
Project #:		Project Name: Conoco		Matrix		PRESERV			
Project Location: EUGSAW - 3467-018		Sample Name: TKampkin		GROUNDWATER		ACID/BASE:			
FOR LAB USE ONLY		Sample I.D.		WASTEWATER		ICE / COOL			
				SOIL		OTHER:			
				OIL		OTHER:			
				SLUDGE					
				# CONTAINERS					
				(G)RAB OR (C)OMP.					
1	H301546	N. Wall W. End	50'	9	1	6-27-13	7:00	✓	
2		N. Wall W. End	75'	9	1	11:30	11:30	✓	
3		" "	125'	9	1	11:35	11:35	✓	
4		" "	190'	9	1	11:00	11:00	✓	
5		" "	175'	9	1	3:30	3:30	✓	
6		Small E. End	725'	9	1	3:35	3:35	✓	
7		" "	750'	9	1	3:40	3:40	✓	
8		" "	775'	9	1			✓	

**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 services. 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 reasons or otherwise.

Relinquished By: <i>[Signature]</i>		Date: <i>7-1-13</i>	Time: <i>1:30</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:
Relinquished By: <i>[Signature]</i>		Date: <i>7-1-13</i>	Time: <i>4:00</i>	Received By: <i>[Signature]</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:
Delivered By: (Circle One)				REMARKS: <i>TKamp@rice-ecs.com</i> <i>knorman@rice-ecs.com</i> <i>hcooper@rice-ecs.com</i> <i>lweinheimer@rice-ecs.com</i>			
Sampler - UPS - Bus - Other:				CHECKED BY: <i>[Signature]</i>			
				Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			

\* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



July 16, 2013

HACK CONDER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: CONOCO EVGSAU - 3467-018

Enclosed are the results of analyses for samples received by the laboratory on 07/12/13 10:27.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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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,



Celey D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 HACK CONDER  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

 Received: 07/12/2013  
 Reported: 07/16/2013  
 Project Name: CONOCO EVGSAU - 3467-018  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 07/10/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: N WALL W END 325' (H301629-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/15/2013	ND	400	100	400	0.00	

**Sample ID: N WALL W END 350' (H301629-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/15/2013	ND	400	100	400	0.00	

**Sample ID: N WALL W END 375' (H301629-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/15/2013	ND	400	100	400	0.00	

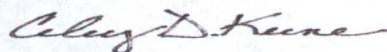
**Sample ID: W WALL N END (H301629-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/15/2013	ND	400	100	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

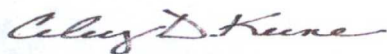
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager





# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

BILL TO										ANALYSIS REQUEST																		
Company Name: <b>RECS</b>										P.O. #:																		
Project Manager: <b>Hack Conder</b>										Company:																		
Address:										Attn:																		
City: <b>Hobbs</b>										Address:																		
Phone #:										City:																		
Project #:										State:																		
Project Name: <b>Conoco</b>										Phone #:																		
Project Location: <b>EVGSAN 3467-018</b>										Fax #:																		
Sampler Name: <b>Kyle Norman</b>																												
FOR LAB USE ONLY																												
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP?	# CONTAINERS	MATRIX				PRESERV		SAMPLING		DATE		TIME		Chlorides		TPH 8015 M		BTX		Texas TPH		Complete Cations/Anions		TDS		
1	Al-Nail W. End 315' * JK	9	1	GROUNDWATER	✓	✓	✓	✓	✓	✓	✓	✓	7-10-13	1:00	✓													
2	" " " 330'	9	1	GROUNDWATER	✓	✓	✓	✓	✓	✓	✓	✓	7-10-13	1:05	✓													
3	" " " 375'	9	1	GROUNDWATER	✓	✓	✓	✓	✓	✓	✓	✓	7-11-13	1:10	✓													
4	West Well N. End	9	1	GROUNDWATER	✓	✓	✓	✓	✓	✓	✓	✓	7-11-13	12:10	✓													

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 analysis. All claims, including those for negligence and any other claims whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analysis. 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 service providers 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: 	Relinquished By: 	Relinquished By: 
Date: <b>7/12/13</b>	Date: <b>7/10/13</b>	Date: <b>7/10/13</b>
Time: <b>10:27</b>	Time: <b>10:27</b>	Time: <b>10:27</b>
Delivered By: (Circle One)	Delivered By: (Circle One)	Delivered By: (Circle One)
Sampler: UPS - Bus - Other:	Sampler: UPS - Bus - Other:	Sampler: UPS - Bus - Other:
Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No
Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No
REMARKS:		
email results: zconder@rice-ecs.com Knorman@rice-ecs.com; lpena@riceswd.com Kjones@riceswd.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com Jkauplin@rice-ecs.com		

\* Sample id changed 7/16/13. ch

#54

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



July 16, 2013

HACK CONDER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: CONOCO EVGSAU - 3467-018

Enclosed are the results of analyses for samples received by the laboratory on 07/16/13 9:15.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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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,



Celey D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
HACK CONDER  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 07/16/2013  
Reported: 07/16/2013  
Project Name: CONOCO EVGSAU - 3467-018  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/12/2013  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: S. WALL 825' (H301653-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2013	ND	416	104	400	3.92	

**Sample ID: S. WALL 850' (H301653-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2013	ND	416	104	400	3.92	

**Sample ID: S. WALL 875' (H301653-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/16/2013	ND	416	104	400	3.92	

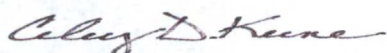
**Sample ID: N. WALL 225' (H301653-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/16/2013	ND	416	104	400	3.92		

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
HACK CONDER  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 07/16/2013  
Reported: 07/16/2013  
Project Name: CONOCO EVGSAU - 3467-018  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/12/2013  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: N. WALL 250' (H301653-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/16/2013	ND	416	104	400	3.92	

**Sample ID: N. WALL 275' (H301653-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/16/2013	ND	416	104	400	3.92	

**Sample ID: N. WALL 50' (H301653-07)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/16/2013	ND	416	104	400	3.92	

**Sample ID: N. WALL 75' (H301653-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/16/2013	ND	416	104	400	3.92	

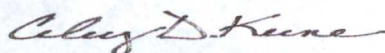
**Sample ID: WEST WALL PT. 1 (H301653-09)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/16/2013	ND	416	104	400	3.92	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
HACK CONDER  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 07/16/2013  
Reported: 07/16/2013  
Project Name: CONOCO EVGSAU - 3467-018  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/16/2013  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: WEST WALL PT. 2 (H301653-10)**

Chloride, SM4500Cl-B

mg/kg

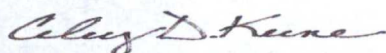
Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/16/2013	ND	416	104	400	3.92	

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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

## CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

BILL TO										ANALYSIS REQUEST										
Company Name: <u>Recs</u>										P.O. #:										
Project Manager: <u>Hack Conder</u>										Company:										
Address:										Attn:										
City: <u>Hobbs</u>										Address:										
Phone #:										City:										
Project #:										State:										
Project Name:										Phone #:										
Project Location: <u>EUG.SAG 3467-018</u>										Fax #:										
Sampler Name: <u>Kyle Norman</u>																				
FOR LAB USE ONLY																				
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	TDS
1	S. Wall 825'	G	1										7-12-9	8:00	✓					
2	S. Wall 850'	G	1										"	8:05	✓					
3	S. Wall 875'	G	1										"	8:10	✓					
4	N. Wall 225'	G	1										"	10:30	✓					
5	N. Wall 250'	G	1										"	10:35	✓					
6	N. Wall 275'	G	1										"	10:40	✓					
7	N. Wall 50'	G	1										7-16-9	8:10	✓					
8	N. Wall 75'	G	1										"	8:15	✓					
9	West Wall Pri 1	G	1										"	8:20	✓					
10	West Wall Pri 2	G	1										"	8:25	✓					

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 causes 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: <u>Kyle Norman</u>	Date: <u>7-16-9</u>	Received By: <u>Debi Benson</u>	Date: <u>7-16-9</u>
Relinquished By:	Date:	Received By:	Date:
Delivered By: (Circle One)		Sample Condition	CHECKED BY: <u>Debi Benson</u>
Sampler - UPS - Bus - Other:		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

email results: zconder@rice-ecs.com  
Knorman@rice-ecs.com; lpena@riceswd.com  
Kjones@riceswd.com; Bbaker@rice-ecs.com;  
hconder@rice-ecs.com; Lweinheimer@rice-ecs.com  
J.Kamplain@rice-ecs.com

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

# 54



July 27, 2013

HACK CONDER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: EVGSAU 3467-018

Enclosed are the results of analyses for samples received by the laboratory on 07/24/13 9:40.

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](http://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,



Celey D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
HACK CONDER  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 07/24/2013  
Reported: 07/27/2013  
Project Name: EVGSAU 3467-018  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/24/2013  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: IMPORTED CLAY (H301733-01)**

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/25/2013	ND	416	104	400	0.00	

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. Keene, Lab Director/Quality Manager



**Notes and Definitions**

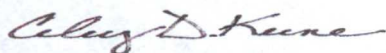
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

---

**Cardinal Laboratories**

\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



10



August 05, 2013

HACK CONDER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: EVGSAU 3467-018

Enclosed are the results of analyses for samples received by the laboratory on 07/31/13 12:40.

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](http://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,



Celey D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
HACK CONDER  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 07/31/2013  
Reported: 08/05/2013  
Project Name: EVGSAU 3467-018  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/31/2013  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: N WALL SE END (H301808-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/01/2013	ND	432	108	400	0.00	

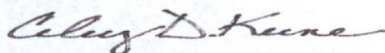
**Sample ID: N WALL @ 725' (H301808-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/01/2013	ND	432	108	400	0.00		

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

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

ARDINAL LABORATORIES

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

[illegible]

+ Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2456

#54



August 13, 2013

HACK CONDER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: EVGSAU 3467-018

Enclosed are the results of analyses for samples received by the laboratory on 08/12/13 10:55.

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](http://www.tceq.texas.gov/field/ga/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,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 HACK CONDER  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

 Received: 08/12/2013  
 Reported: 08/13/2013  
 Project Name: EVGSAU 3467-018  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/12/2013  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: PT. 1 W SIDE S WALL (H301902-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/13/2013	ND	432	108	400	0.00	

**Sample ID: PT. 2 E SIDE S WALL (H301902-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/13/2013	ND	432	108	400	0.00	

**Sample ID: S WALL @ 250' (H301902-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/13/2013	ND	432	108	400	0.00	

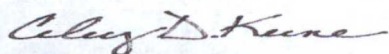
**Sample ID: S WALL @ 275' (H301902-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/13/2013	ND	432	108	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

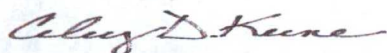
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

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Cardinal Laboratories

\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## CARDINAL LABORATORIES

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: **REES**

Project Manager: Hack Conder

Address:

City: Hobbs

Phone #:

State: NM Zip: 88240

Fax #:

Project #:

Project Owner:

Project Name:

Project Location: **EUG SAH 3467-018**

Sampler Name: Kyle Norman

**BILL TO**

P.O. #:

Company:

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

## ANALYSIS REQUEST

Lab I.D.	Sample I.D.	MATRIX				PRESERV	SAMPLING	DATE	TIME	Chlorides	TPH 8015 M	BTX	Texas TPH	Complete Cations/Anions	TDS
		GROUNDWATER	WASTEWATER	SOIL	OIL										
H3019DZ															
1	Pt 1 W side S Wall							8/13	9:30	✓					
2	Pt 2 E Side S Wall							11	9:55	✓					
3	S Wall @ 250'							11	9:55	✓					
4	S Wall @ 275'							11	10:00	✓					

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 analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date: 8-14-03

Received By:

Time: 10:55

Signature: *Kyle Norman*

Relinquished By:

Date:

Received By:

Time:

Signature: *Kyle Norman*

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

CHECKED BY:

(Initials)

Signature: *[Signature]*

Sample Condition

Cool

Intact

Yes ☒ No ☐Yes ☒ No ☐Phone Result: ☐ Yes ☒ NoFax Result: ☐ Yes ☒ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

email results:

Knorman@rice-ecs.com; lpena@riceswd.com  
Kjones@riceswd.com; ~~lpena@riceswd.com~~  
hconder@rice-ecs.com; Lweinheimer@rice-ecs.com

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

#54



August 13, 2013

HACK CONDER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: EVGSAU 3467-018

Enclosed are the results of analyses for samples received by the laboratory on 08/13/13 13:50.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

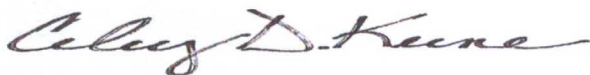
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
HACK CONDER  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 08/13/2013  
Reported: 08/13/2013  
Project Name: EVGSAU 3467-018  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 08/13/2013  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: N WALL @ 750' (H301916-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/13/2013	ND	432	108	400	3.64	

**Sample ID: N WALL @ 775' (H301916-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/13/2013	ND	432	108	400	3.64	

**Sample ID: N WALL @ 825' (H301916-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	08/13/2013	ND	432	108	400	3.64		

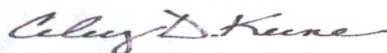
**Sample ID: N WALL @ 850' (H301916-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/13/2013	ND	432	108	400	3.64		

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. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 HACK CONDER  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

 Received: 08/13/2013  
 Reported: 08/13/2013  
 Project Name: EVGSAU 3467-018  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/13/2013  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: E WALL @ 25' (H301916-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/13/2013	ND	432	108	400	3.64	

**Sample ID: E WALL @ 50' (H301916-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/13/2013	ND	432	108	400	3.64	

**Sample ID: E WALL @ 250' (H301916-07)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/13/2013	ND	432	108	400	3.64	

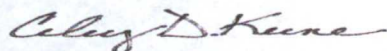
**Sample ID: S WALL @ 900' (H301916-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/13/2013	ND	448	112	400	11.3	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

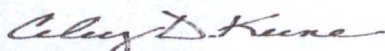
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

---

**Cardinal Laboratories**

\* = Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

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

BILLYTO		ANALYSIS REQUEST																																																		
Company Name: <b>RECS</b> Project Manager: Hack Conder Address: City: Hobbs      State: NM      Zip: 88240 Phone #:      Fax #:      Project Owner: Project #:      Project Name: Project Location: <b>EUGSA 3467-018</b> Sampler Name: Kyle Norman		P.O. #: Company: Attn: Address: City: State:      Zip: Phone #: Fax #:																																																		
Lab I.D.  <b>H301916</b>	Sample I.D.  <b>1 N Wall @ 750'</b> <b>2 N Wall @ 775'</b> <b>3 N Wall @ 825'</b> <b>4 N Wall @ 850'</b> <b>5 E Wall @ 25'</b> <b>6 E Wall @ 50'</b> <b>7 E Wall @ 250'</b> <b>8 S Wall @ 900'</b>	FOR LAB USE ONLY																																																		
		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2"># CONTAINERS</th> <th colspan="6">MATRIX</th> <th rowspan="2">PRESERV.</th> <th rowspan="2">SAMPLING</th> </tr> <tr> <th>GROUNDWATER</th> <th>WASTEWATER</th> <th>SOIL</th> <th>OIL</th> <th>SLUDGE</th> <th>OTHER:</th> </tr> <tr> <td>(G)RAB OR (C)OMP.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ACID/BASE:</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ICE / COOL</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>OTHER:</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>DATE</td> <td>TIME</td> <td></td> </tr> </table>		# CONTAINERS	MATRIX						PRESERV.	SAMPLING	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	(G)RAB OR (C)OMP.						ACID/BASE:									ICE / COOL									OTHER:									DATE
# CONTAINERS	MATRIX						PRESERV.	SAMPLING																																												
	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:																																														
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		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Chlorides</td> <td>TPH 8015 M</td> <td>BTEX</td> <td>Texas TPH</td> <td>Complete Cations/Anions</td> <td>TDS</td> </tr> </table>		Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS																																											
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Relinquished By:	Received By:
Date: <b>8-13-73</b>	Date: <b>8-13-73</b>
Time: <b>1:50</b>	Time: <b>1:50</b>
Relinquished By: _____	Received By: _____
Date: _____	Date: _____
Time: _____	Time: _____

Delivered By: (Circle One)  
 Sampler - UPS - Bus - Other:

CHECKED BY:

Sample Condition: ☒ Yes ☐ No

Cool Intact: ☒ Yes ☐ No

Phone Result: ☐ Yes ☒ No      Add'l Phone #: \_\_\_\_\_

Fax Result: ☐ Yes ☒ No      Add'l Fax #: \_\_\_\_\_

REMARKS:

email results: zconder@rice-ecs.com  
 Knorman@rice-ecs.com; lpena@riceswd.com  
 Kjones@riceswd.com; Bbaker@rice-ecs.com;  
 hconder@rice-ecs.com; Lweinheimer@rice-ecs.com

+ Cardinal cannot accept verbal changes, Please fax written changes to 505-393-2166

#54

August 15, 2013

HACK CONDER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: EVGSAU 3467-018

Enclosed are the results of analyses for samples received by the laboratory on 08/15/13 14:20.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, 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,



Caley D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
HACK CONDER  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 08/15/2013  
Reported: 08/15/2013  
Project Name: EVGSAU 3467-018  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 08/15/2013  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: PT. 1 W SIDE S WALL (H301944-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/15/2013	ND	400	100	400	0.00	

**Sample ID: N WALL @ 825' (H301944-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/15/2013	ND	400	100	400	0.00	

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

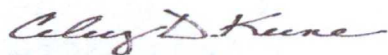
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

**ARDINAL LABORATORIES**

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

858

**BILL TO**

ANALYSIS REQUEST

[illegible]

**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 services. 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 services. 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 or 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 said reasons or otherwise.

Relinquished By:	Date: 1/20	Received By:
------------------	------------	--------------

Received By: Redi Henson

Phone Result:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Add'l Phone #:

Fax Result:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Add'l Fax #:
-------------	------------------------------	--	--------------

REMARKS:

Relinquished By:

Date: 2-10-2000 Received By: [Signature]

Received By: \_\_\_\_\_

Delivered By: (Circle One)

Sample Condition	CHECKED BY:
------------------	-------------

**Sampler - UPS - Bus - Other:**

ЧЕКС/Д/ВУ:

email results: zconder@rice-ecs.com  
Knorman@rice-ecs.com; lpena@riceswd.com  
Kjones@riceswd.com; Bbaker@rice-ecs.com;  
hconder@rice-ecs.com; Lweinheimer@riceecs.com

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

#54



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

August 20, 2013

HACK CONDER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: EVGSAU 3467-018

Enclosed are the results of analyses for samples received by the laboratory on 08/20/13 12:40.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

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Sincerely,

Celey D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 HACK CONDER  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

 Received: 08/20/2013  
 Reported: 08/20/2013  
 Project Name: EVGSAU 3467-018  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/20/2013  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: IMPORTED TOP SOIL (H301983-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/20/2013	ND	400	100	400	0.00	

**Sample ID: E. WALL @ 75' (H301983-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/20/2013	ND	400	100	400	0.00	

**Sample ID: E. WALL @ 200' (H301983-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/20/2013	ND	400	100	400	0.00	

**Sample ID: E. WALL @ 225' (H301983-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/20/2013	ND	400	100	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
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 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

 Received: 08/20/2013  
 Reported: 08/20/2013  
 Project Name: EVGSAU 3467-018  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/20/2013  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: S. WALL @ 425' (H301983-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/20/2013	ND	400	100	400	0.00	

**Sample ID: S. WALL @ 450' (H301983-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/20/2013	ND	400	100	400	0.00	

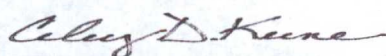
**Sample ID: S. WALL @ 475' (H301983-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/20/2013	ND	400	100	400	0.00	

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

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**Cardinal Laboratories**

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

*BUSH*

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**CARDINAL LABORATORIES**

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: <b>RECS</b>		P.O. #:		ANALYSIS REQUEST									
Project Manager: Hack Conder		Company:											
Address:		Attn:											
City: Hobbs		Address:											
Phone #:		City:											
Project #:		State:											
Project Name:		Phone #:											
Project Location: <b>EUGSAU 3467-018</b>		Fax #:											
Sampler Name: Kyle Norman													

Lab I.D.	Sample I.D.	MATRIX				PRESERV.	SAMPLING	DATE	TIME	Chlorides	TPH 8015 M	BTX	Texas TPH	Complete Cations/Anions	TDS
		GROUNDWATER	WASTEWATER	SOIL	SLUDGE										
H301983	Imported Top Soil							8-20-13	8:15						
1	E wall @ 75'							"	8:30						
2	E wall @ 200'							"	8:40						
3	E wall @ 225'							"	8:55						
4	S wall @ 425'							"	9:15						
5	S wall @ 450'							"	9:45						
6	S wall @ 475'							"	10:30						
7	S wall @ 475'														

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: <i>Kyle Norman</i>	Date: <b>8-20-13</b>	Received By: <i>Kyle Norman</i>	Date: <b>8-20-13</b>
Relinquished By:	Date:	Received By:	Date:
Delivered By: (Circle One)		Sample Condition	CHECKED BY: <i>[Signature]</i>
Sampler - UPS - Bus - Other:		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Phone Result: ☐ Yes ☒ No Add'l Phone #:  
Fax Result: ☐ Yes ☒ No Add'l Fax #:  
REMARKS:  
email results: zconder@rice-ecs.com  
Knorman@rice-ecs.com; lpena@riceswd.com  
Kjones@riceswd.com; Bbaker@rice-ecs.com;  
hconder@rice-ecs.com; Lweinheimer@rice-ecs.com

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

**#54**





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

August 23, 2013

HACK CONDER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: EVGSAU 3467-018

Enclosed are the results of analyses for samples received by the laboratory on 08/22/13 12:57.

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](http://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,

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 HACK CONDER  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

 Received: 08/22/2013  
 Reported: 08/23/2013  
 Project Name: EVGSAU 3467-018  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/22/2013  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Celey D. Keene

**Sample ID: E WALL 125' (H302015-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/23/2013	ND	416	104	400	3.92	

**Sample ID: E WALL 150' (H302015-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/23/2013	ND	416	104	400	3.92	

**Sample ID: E WALL 175' (H302015-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/23/2013	ND	416	104	400	3.92	

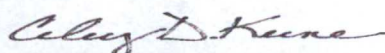
**Sample ID: S WALL SE END (H302015-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/23/2013	ND	416	104	400	3.92	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
HACK CONDER  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 08/22/2013  
Reported: 08/23/2013  
Project Name: EVGSAU 3467-018  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 08/22/2013  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Celey D. Keene

**Sample ID: S WALL 525' (H302015-05)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/23/2013	ND	416	104	400	3.92	

**Sample ID: S WALL 550' (H302015-06)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/23/2013	ND	416	104	400	3.92	

**Sample ID: S WALL 575' (H302015-07)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/23/2013	ND	416	104	400	3.92	

**Sample ID: ISLAND PT. 1 (H302015-08)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/23/2013	ND	416	104	400	3.92	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

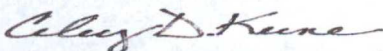
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

---

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





August 26, 2013

HACK CONDER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: EVGSAU 3467-018

Enclosed are the results of analyses for samples received by the laboratory on 08/23/13 11:45.

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](http://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,



Celey D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 HACK CONDER  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

 Received: 08/23/2013  
 Reported: 08/26/2013  
 Project Name: EVGSAU 3467-018  
 Project Number: NOONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/23/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: N WALL @ 425' (H302030-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/26/2013	ND	400	100	400	7.69	

**Sample ID: N WALL @ 450' (H302030-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/26/2013	ND	400	100	400	7.69	

**Sample ID: N WALL @ 475' (H302030-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/26/2013	ND	400	100	400	7.69	

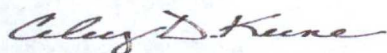
**Sample ID: ISLAND PT. 2 (H302030-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/26/2013	ND	400	100	400	7.69	

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 HACK CONDER  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

 Received: 08/23/2013  
 Reported: 08/26/2013  
 Project Name: EVGSAU 3467-018  
 Project Number: NOONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/23/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: ISLAND PT. 3 (H302030-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/26/2013	ND	400	100	400	7.69	

**Sample ID: ISLAND PT. 4 (H302030-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/26/2013	ND	400	100	400	7.69	

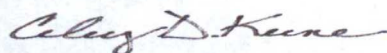
**Sample ID: ISLAND PT. 5 (H302030-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/26/2013	ND	400	100	400	7.69	

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

*RUSH*

# ARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>RECS</b>		P.O. #:		ANALYSIS REQUEST																	
Project Manager: Hack Conder		Company:																			
Address:		Attn:																			
City: Hobbs		State: NM Zip: 88240																			
Phone #:		Address:																			
Project #:		City:																			
Project Name:		State:																			
Project Location: <b>EUGSAU 3467-018</b>		Phone #:																			
Sampler Name: Kyle Norman		Fax #:																			
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING		Chlorides		TPH 8015 M		BTX		Texas TPH		Complete Cations/Anions		TDS			
Lab I.D.	Sample I.D.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME								
H3202030	N Wall @ 425'	1										8-23-13	8:00	✓							
1	N Wall @ 450'	1										11	8:15	✓							
2	N Wall @ 475'	1										11	8:30	✓							
3	N Wall @ 475'	1										11	9:15	✓							
4	Island Pt 2	1										11	9:45	✓							
5	Island Pt 3	1										11	10:00	✓							
6	Island Pt 4	1										11	10:15	✓							
7	Island Pt 5	1										11	10:45	✓							

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 causes 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: <i>Kyle Norman</i>	Date: 8-23-13	Received By: <i>Kyle Norman</i>	Date: 8-23-13	Time: 11:45	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	Checked By: <i>[Signature]</i>
Relinquished By:	Date:	Received By:	Date:	Time:	Sample Condition: Cool <input type="checkbox"/> Intact <input type="checkbox"/>	Checked By:
Delivered By: (Circle One)						
Sampler - UPS - Bus - Other:						

email results: zconder@rice-ecs.com  
Knorman@rice-ecs.com; lpena@riceswd.com  
Kjones@riceswd.com; Bbaker@rice-ecs.com;  
hconder@rice-ecs.com; Lweinheimer@rice-ecs.com

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

#54



August 27, 2013

HACK CONDER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: EVGSAU 3467-018

Enclosed are the results of analyses for samples received by the laboratory on 08/26/13 14:20.

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](http://www.tceq.texas.gov/field/ga/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,



Caley D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
HACK CONDER  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 08/26/2013  
Reported: 08/27/2013  
Project Name: EVGSAU 3467-018  
Project Number: NOONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 08/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: N WALL 525' (H302054-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/27/2013	ND	400	100	400	0.00	

**Sample ID: N WALL 550' (H302054-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/27/2013	ND	400	100	400	0.00	

**Sample ID: N WALL 575' (H302054-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/27/2013	ND	400	100	400	0.00	

**Sample ID: PT. 6 ISLAND (H302054-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/27/2013	ND	400	100	400	0.00	

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. Keene, Lab Director/Quality Manager



**Notes and Definitions**

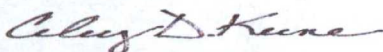
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

---

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\*=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.



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Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## CARDINAL LABORATORIES

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: **RECS**

Project Manager: Hack Conder

Address:

City: Hobbs

State: NM Zip: 88240

Phone #:

Fax #:

Project #:

Project Owner:

Project Name:

Project Location: **EUGSAU 3467-018**

Sampler Name: Kyle Norman

## ANALYSIS REQUEST

P.O. #:  
Company:  
Attn:  
Address:  
City:  
State:  
Phone #:  
Fax #:

PRESERV. SAMPLING

MATRIX  
# CONTAINERS  
(G) RAB OR (C) OMP.  
WASTEWATER  
GROUNDWATER  
SOIL  
SLUDGE  
OTHER:  
ACID/BASE:  
ICE / COOL  
OTHER:

Lab I.D.

Sample I.D.

DATE TIME  
8-26-13 8:45  
" 8:55  
" 9:05  
" 9:15

Chlorides  
TPH 8015 M  
BTX  
Complete Cations/Anions  
Texas TPH  
TDS

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date: 8-27-13

Received By:

Time: 7:20

Phone Result:

Fax Result:

Add'l Phone #:

Add'l Fax #:

Relinquished By:

Date:

Received By:

Time:

Phone Result:

Fax Result:

Add'l Phone #:

Add'l Fax #:

REMARKS:

email results: zconder@rice-ecs.com

Knorman@rice-ecs.com; lpena@riceswd.com

Kjones@riceswd.com; Bbaker@rice-ecs.com;

hconder@rice-ecs.com; Lweinheimer@rice-ecs.com

Delivered By: (Circle One)

Sample Condition

Checked By:

Cool

Intact

Yes

No

Yes

No

Yes

No

Sampler - UPS - Bus - Other:

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

#54



September 04, 2013

HACK CONDER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: EVGSAU 3467-018

Enclosed are the results of analyses for samples received by the laboratory on 09/03/13 14:40.

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](http://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,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
HACK CONDER  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 09/03/2013  
Reported: 09/04/2013  
Project Name: EVGSAU 3467-018  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/03/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: 5 PT COMP ROAD (H302106-01)**
**Chloride, SM4500Cl-B**
**mg/kg**
**Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/04/2013	ND	416	104	400	0.00	

**TPH 8015M**
**mg/kg**
**Analyzed By: CK**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/03/2013	ND	193	96.6	200	0.952	
DRO >C10-C28	<10.0	10.0	09/03/2013	ND	188	93.9	200	1.17	

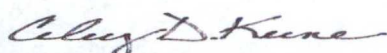
Surrogate: 1-Chlorooctane 82.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 83.6 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

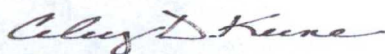
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

**ARDINAL LABORATORIES**

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

[illegible]

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

#54



September 24, 2013

HACK CONDER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: EVGSAU 3467-018

Enclosed are the results of analyses for samples received by the laboratory on 09/23/13 13:37.

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](http://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,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
HACK CONDER  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 09/23/2013  
Reported: 09/24/2013  
Project Name: EVGSAU 3467-018  
Project Number: NOONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/23/2013  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: PT. 1 LEASE PAD (H302308-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/24/2013	ND	416	104	400	3.77		

**Sample ID: PT. 2 LEASE PAD (H302308-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/24/2013	ND	416	104	400	3.77		

**Sample ID: PT. 3 LEASE PAD (H302308-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/24/2013	ND	416	104	400	3.77		

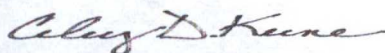
**Sample ID: PT. 4 LEASE PAD (H302308-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/24/2013	ND	416	104	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

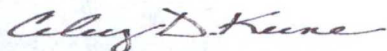
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

---

Cardinal Laboratories

\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager







# Appendix D

Photo Documentation

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967



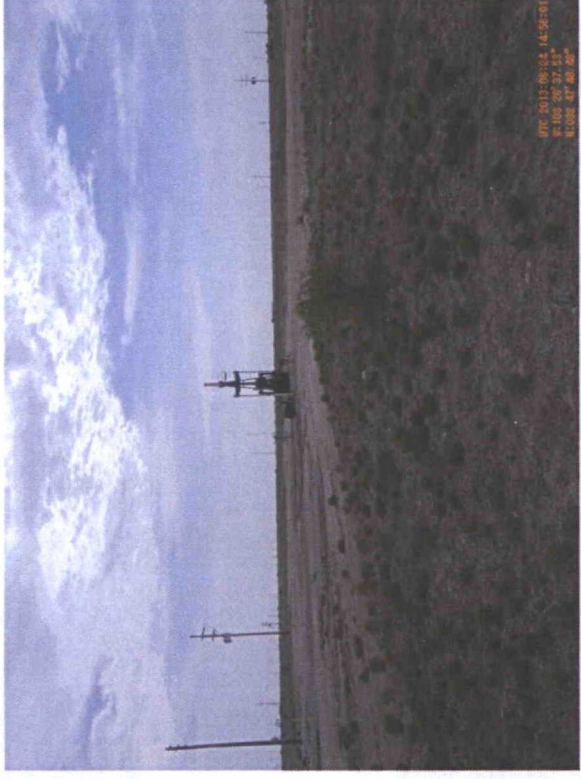
# Conoco Phillips EVGSAU 3467-018

Unit Letter B, Section 34, T17S, R35E



Site photo, facing north

6/24/13



Site photo, facing east

6/24/13



Site photo, facing south

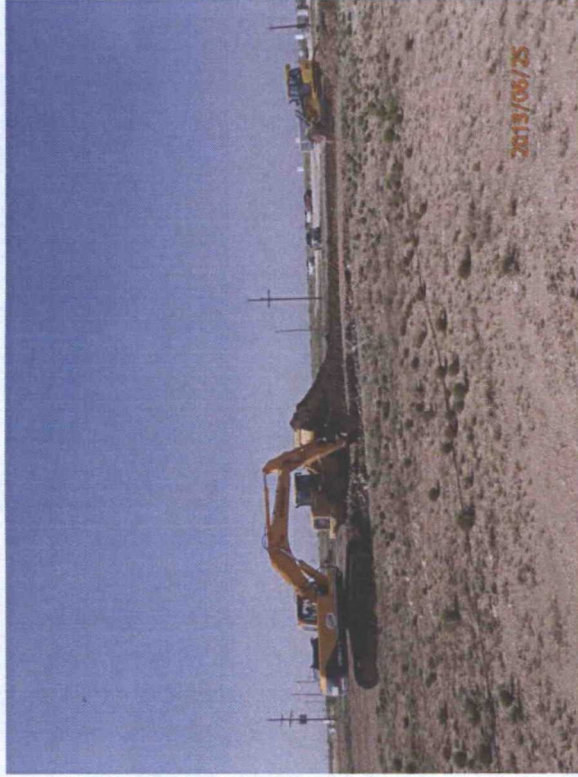
6/24/13



Site photo, facing west

6/24/13





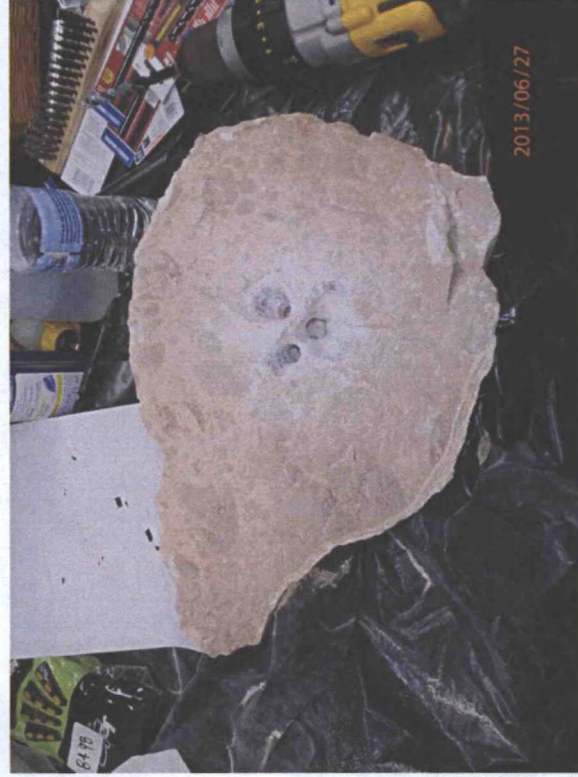
Excavating site, facing south

6/25/13



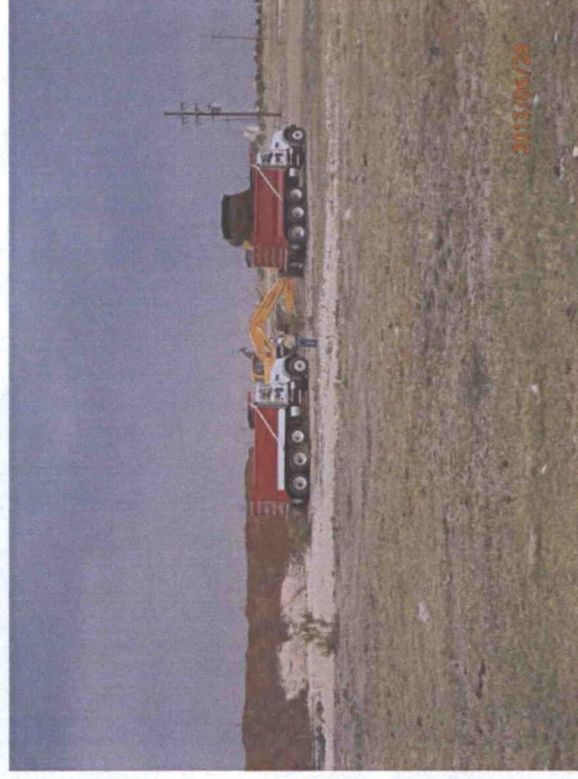
Hand auguring point, facing east

6/27/13



Sampling rock

6/27/13



Exporting soil, facing west

6/28/13





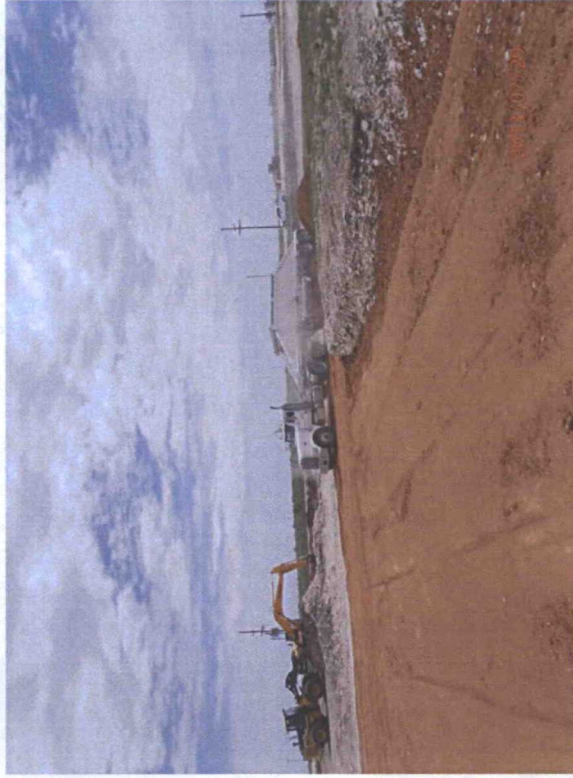
Collecting sample, facing west

7/9/13



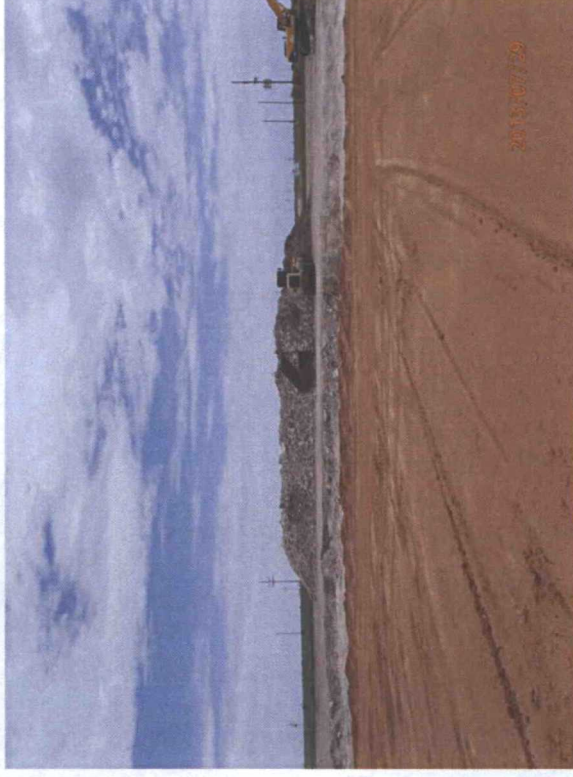
Rock pile, facing northeast

7/25/2013



Importing clay, facing south

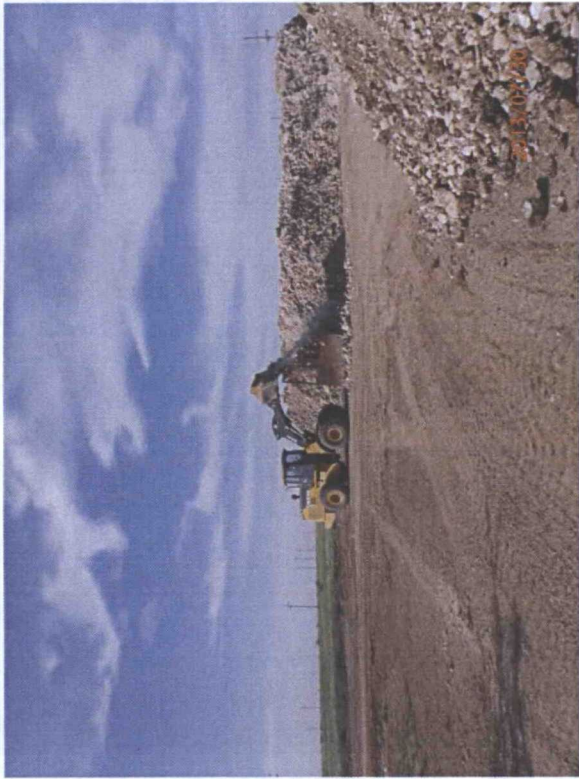
7/29/2013



Clay liner, facing south

7/29/2013

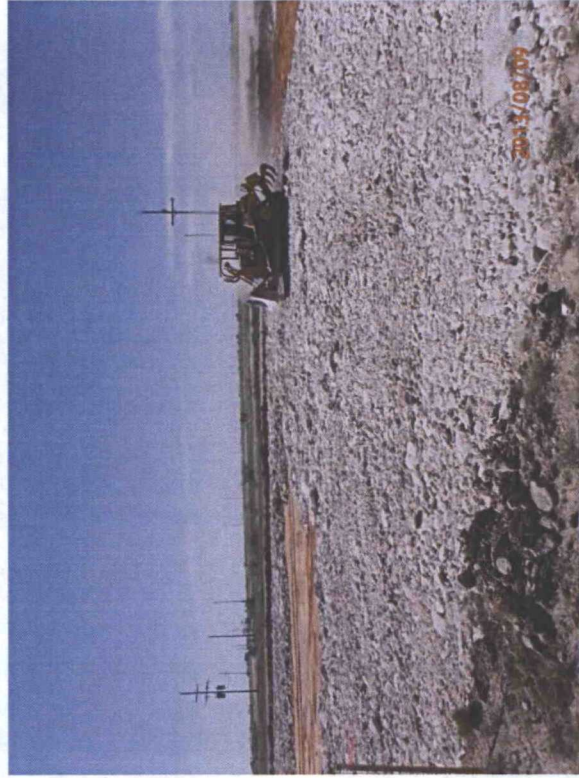




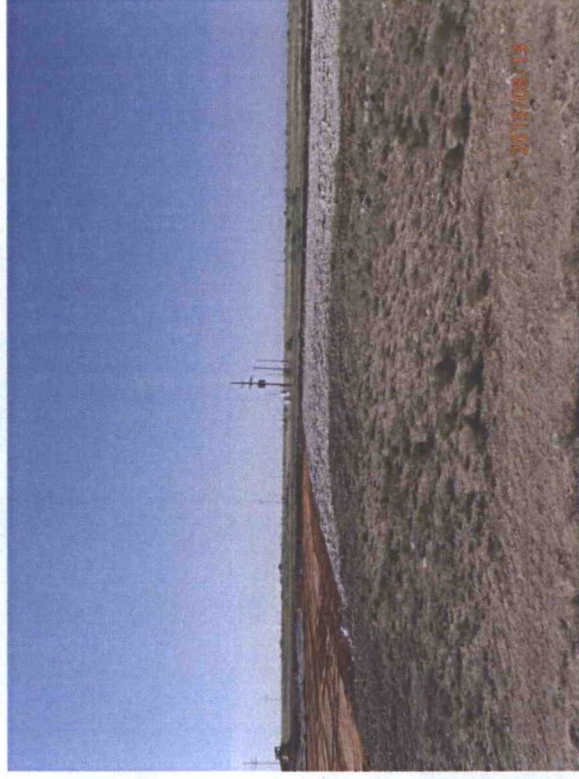
Screening rock from sand, facing west 7/30/2013



Continuing excavation, facing north 7/30/13

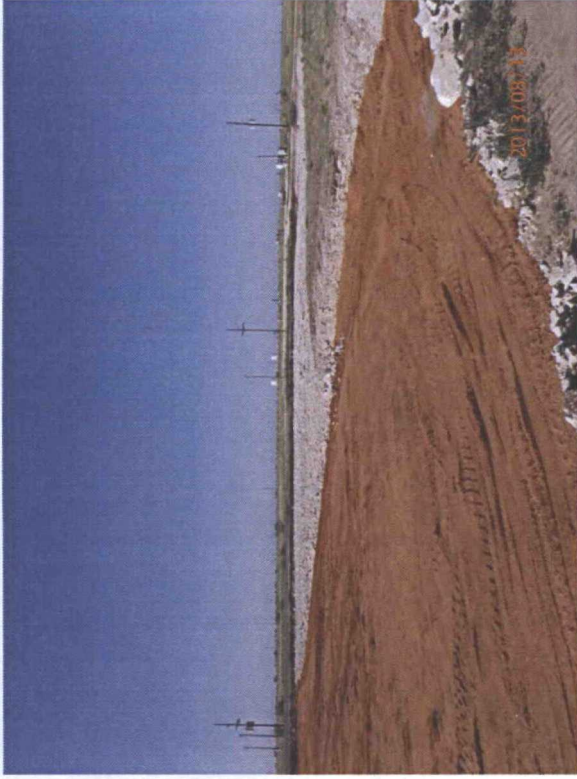


Placing 1 foot of rock over clay, facing south 8/9/13

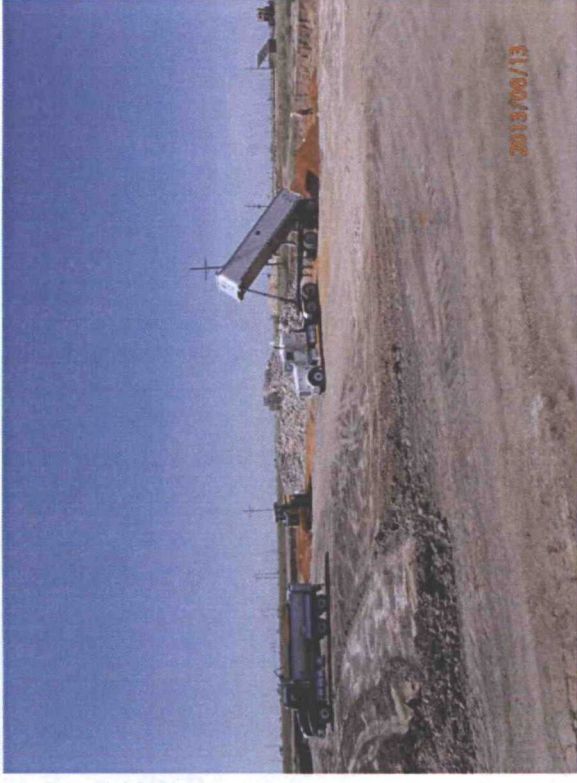


3 ft section with clay and 4 ft section with rock overlay, facing south 8/13/13

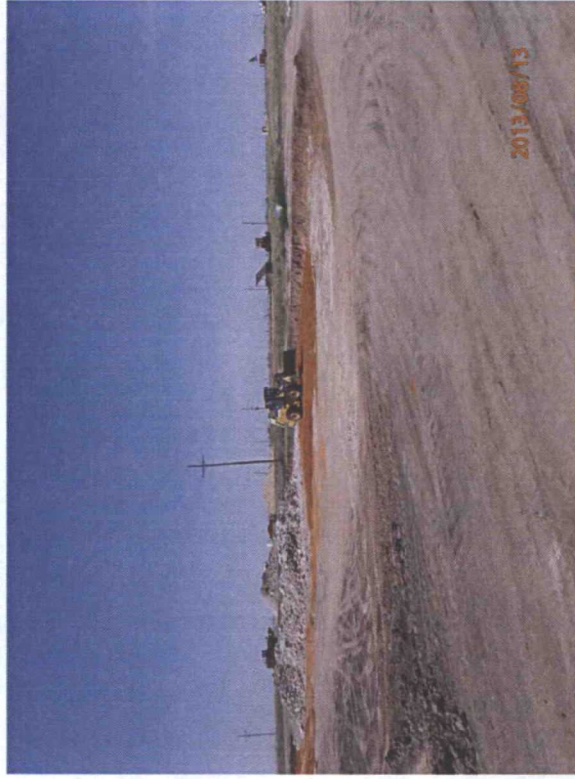




3 ft section with clay and 4 ft section with rock overlay,  
facing southwest 8/13/13



Importing clay and installing liner on east side  
excavation, facing southwest 8/13/13



Installing clay liner on east side, facing SW 8/13/13

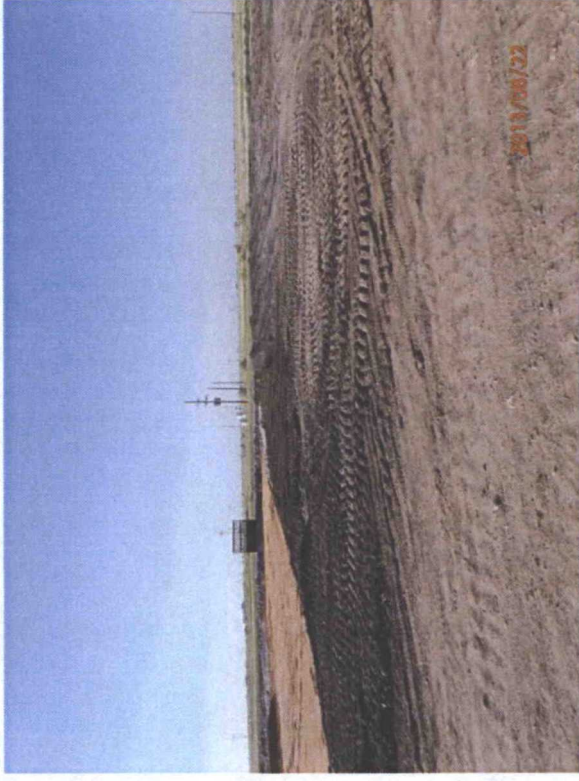


Installing topsoil over middle excavation, facing east  
8/22/13





Importing topsoil, facing north 8/22/13



Completed topsoil over middle 4 ft excavation, facing south 8/22/13

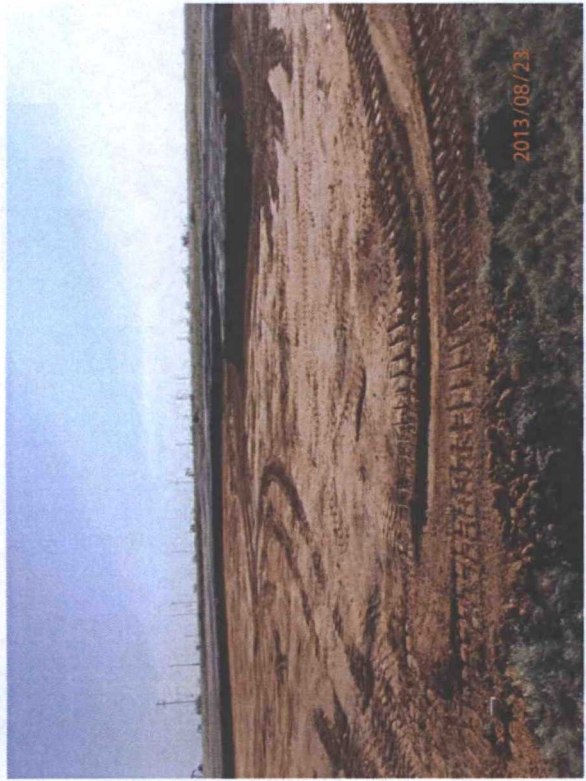


Excavating SB-22 another foot, facing west 8/22/13

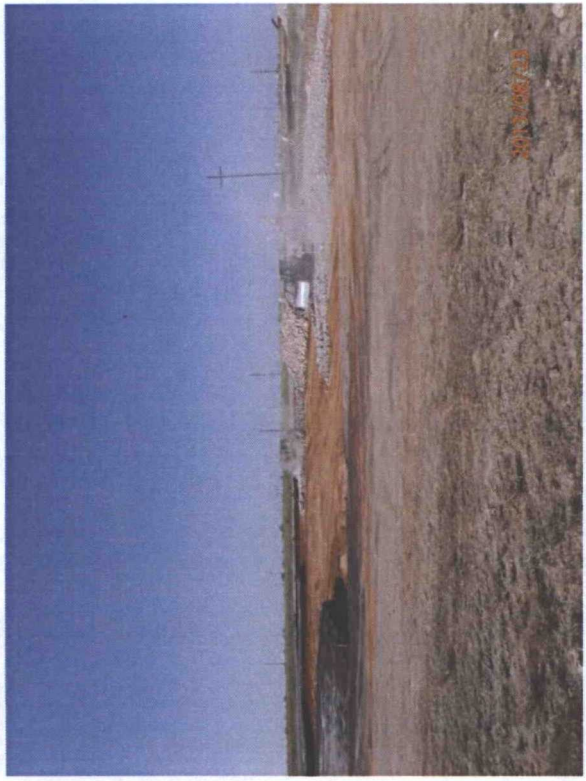


SB-22 excavation completed, facing northeast 8/22/13

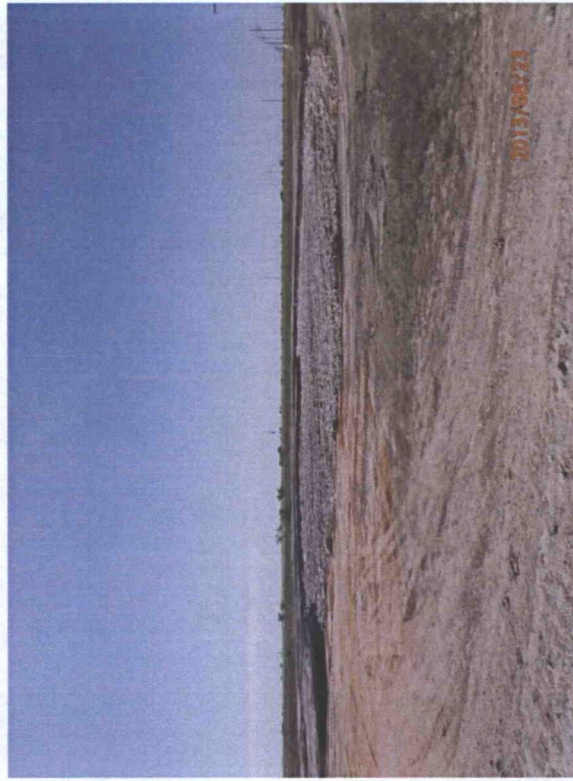




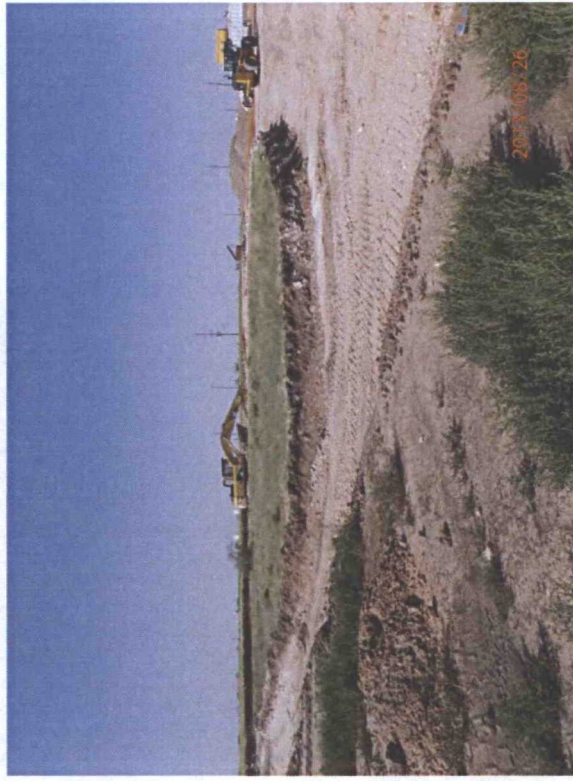
Clay liner installed in east excavation at 4 ft bgs, facing east-northeast 8/23/13



Installing 1 ft of rock over clay in east excavation, facing south 8/23/13

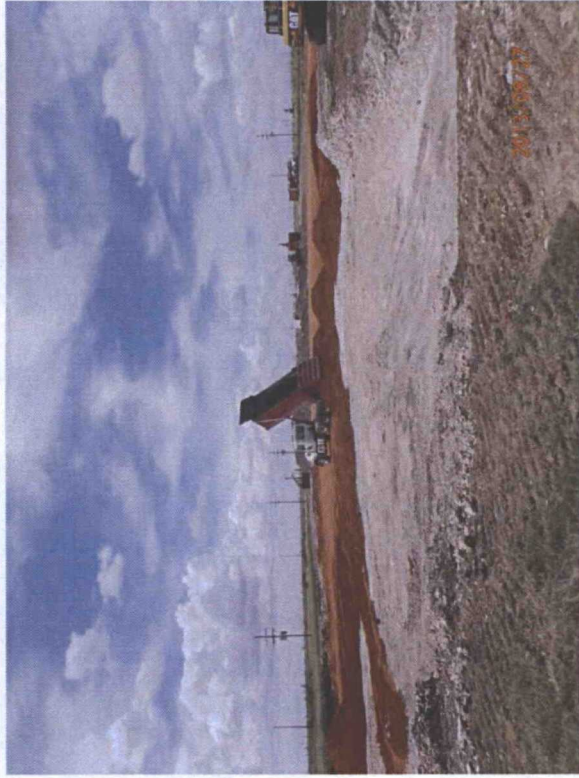


1 foot of rock over clay in east excavation completed, facing south 8/23/13



Completed middle excavation, facing southwest 8/26/13

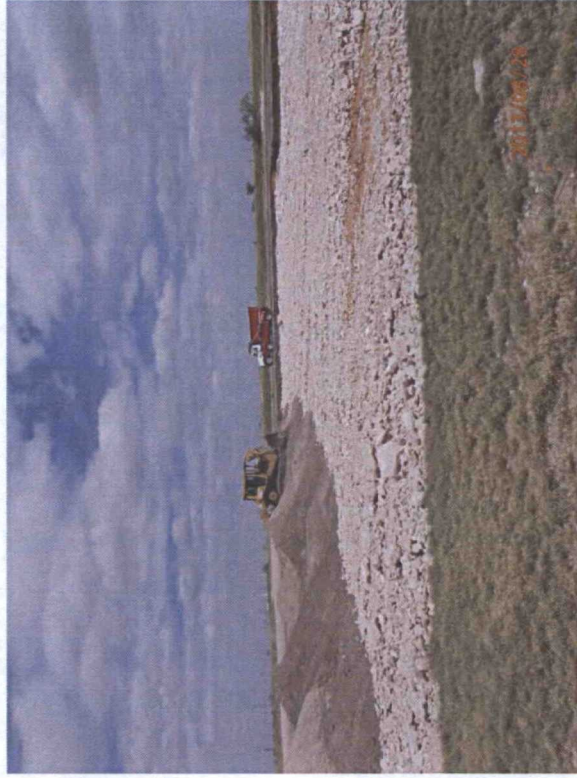




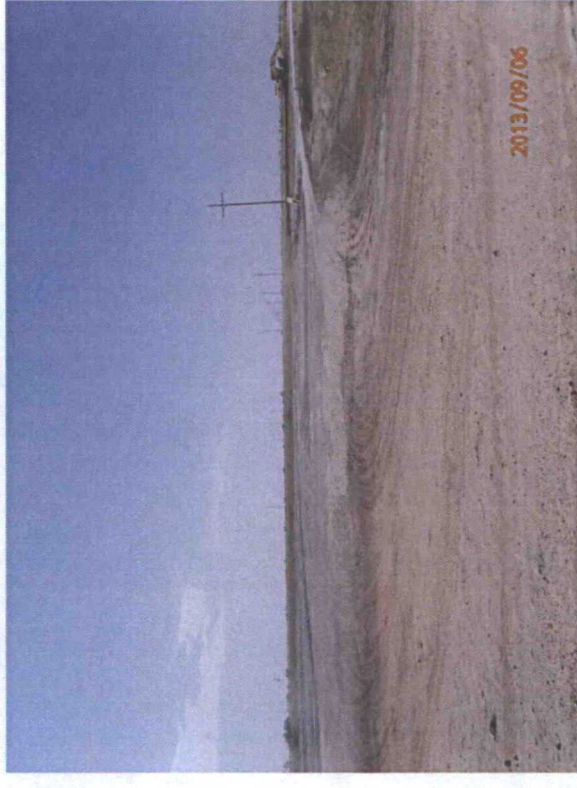
Installing clay liner in middle excavation, facing west  
8/27/13



Completed clay liner in middle excavation, facing northeast  
8/28/13



Placing topsoil over east excavation, facing east  
8/28/13

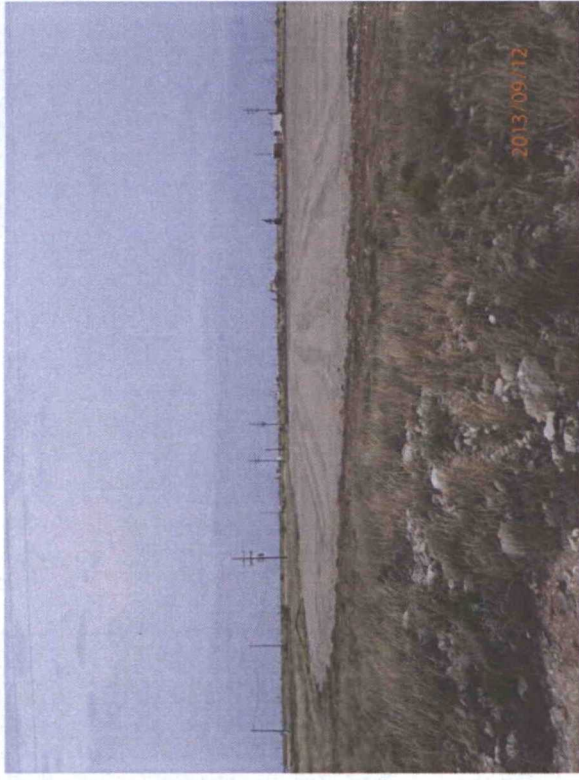


East end excavation completed, facing south  
9/6/13

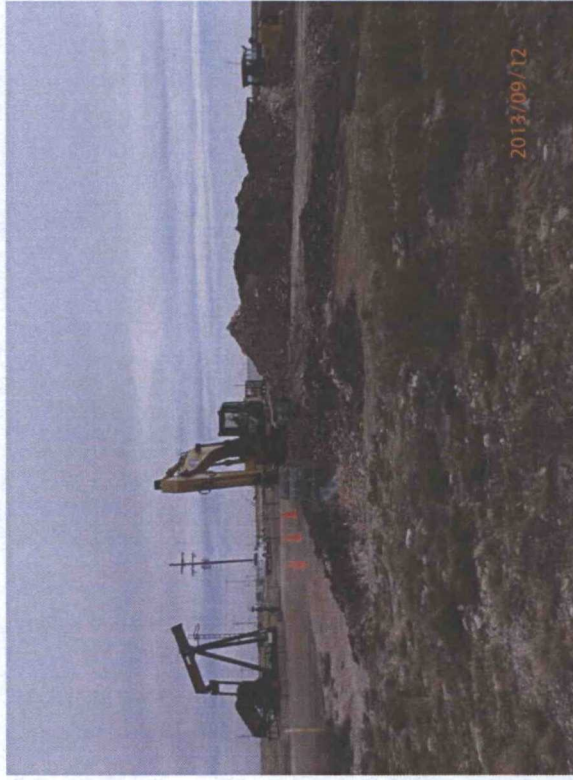




Backfilling middle excavation, facing north 9/10/13



Middle excavation completed, facing west 9/12/13

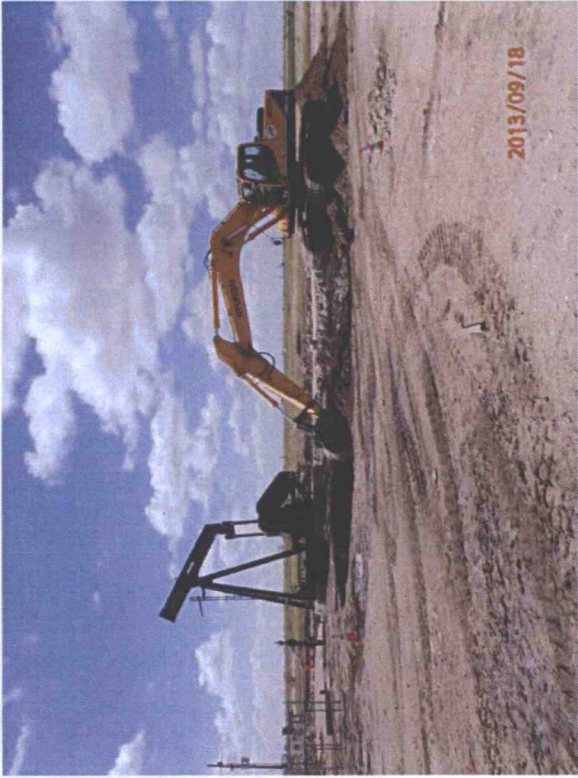


Excavating around lease pad, facing east 9/12/13



Excavation around lease pad completed, facing south 9/16/13

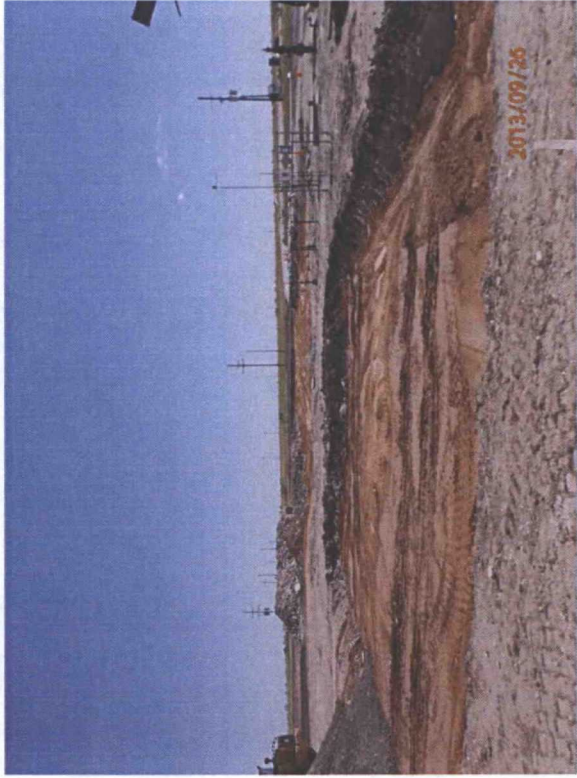




Excavating on lease pad, facing southwest 9/18/13



Excavating on lease pad completed, facing north 9/24/13

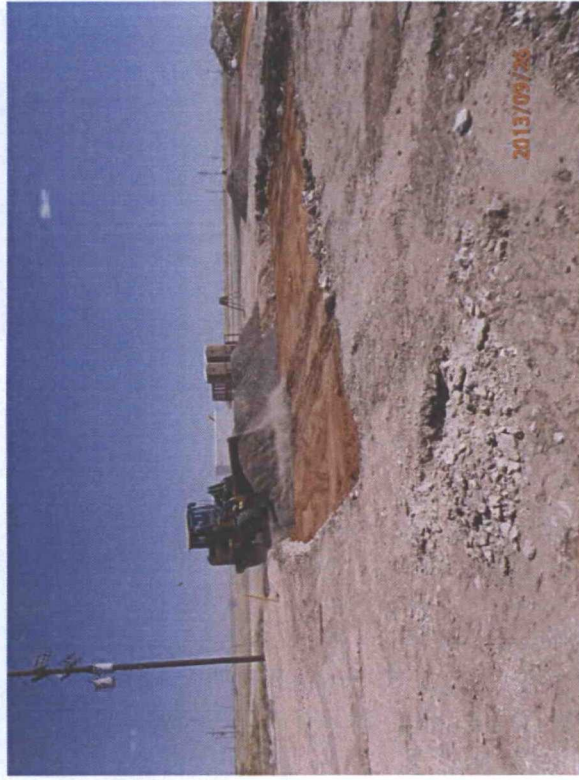


Clay liner installed in pad excavations, facing south 9/26/13



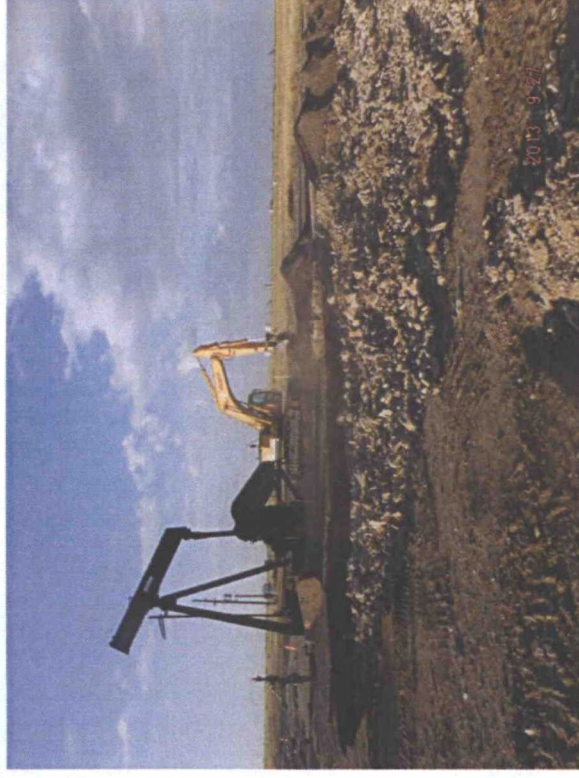
Importing soil, facing east 9/26/13





Backfilling lease pad, facing east

9/26/13



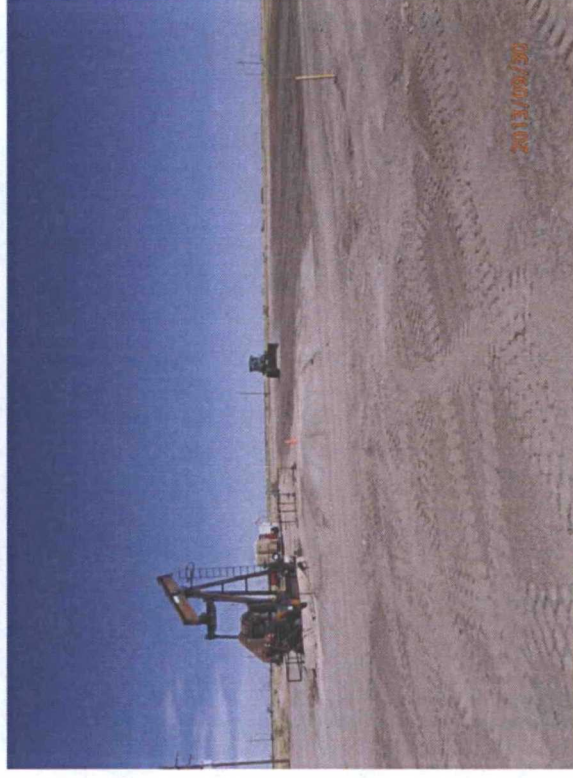
Installed rock layer on pad, facing southwest

9/27/13



Lease pad backfilled, facing south

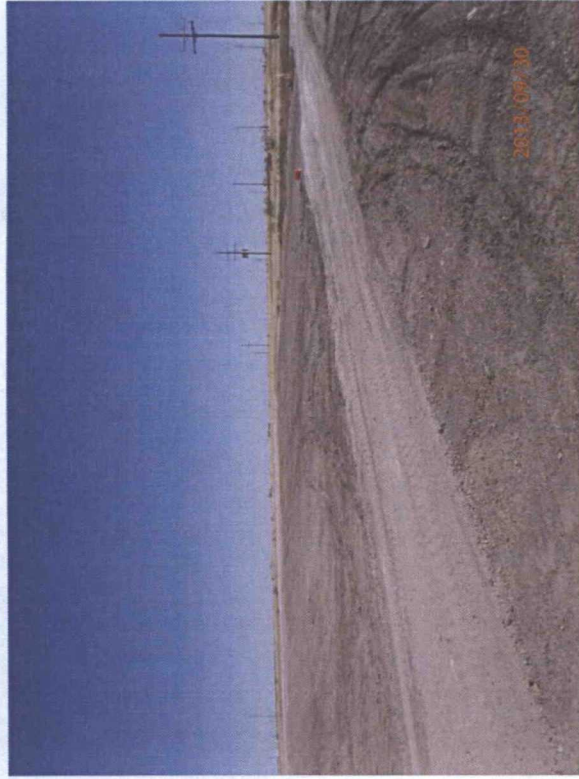
9/30/13



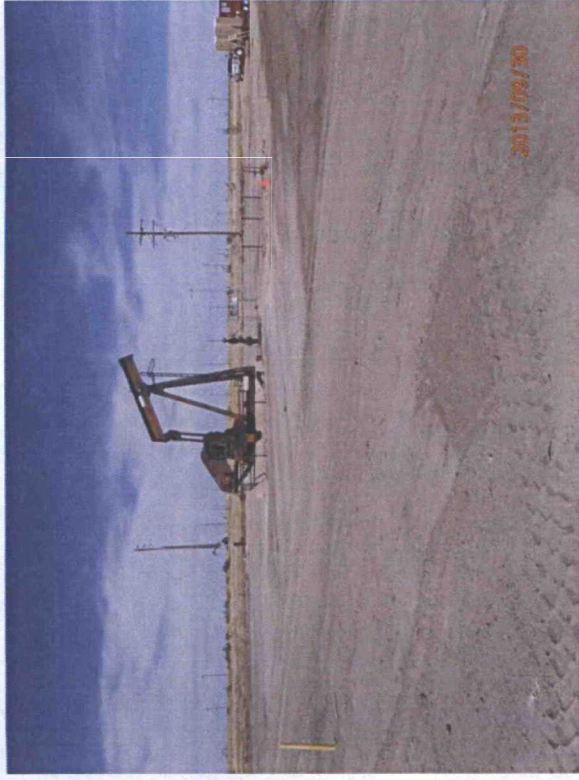
Back-dragging middle excavation, facing east

9/30/13

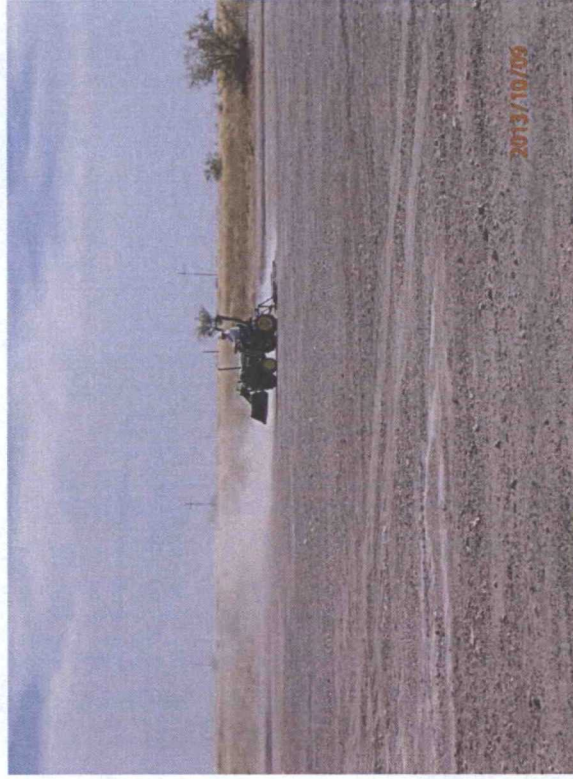




Middle excavation completed, facing southeast 9/30/13



Lease pad excavation completed, facing north 9/30/13



Ripping soil prior to seeding, facing north 10/9/13



Seeding soil, facing southeast 10/9/13