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

#### State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. JUL 1 5 2014

Form C-141 Revised August 8, 2011

Subtraction appropriate District Office in Appropriate District Office in 19.15.29 NMAC.

Santa F	e, NM 875	05								
Telephone No.   Facility Type   Gil Well										
	OPERA	ΓOR	☐ Initia	l Report	☐ Final Report					
Release Notification and Corrective Action OPERATOR Initial Report    Sealing Summe of Company   ConocoPhillips   Contact			Contact							
Release Notification and Corrective Action OPERATOR   Initial Report   Final Report   Final Report   Initial Report   Final Report   Name of Company CanocoPhillips   Contact   Address: 29 Vaccuum Complex Lane   Telephone No. Facility Name   EVGSAU Well 0542-098   Facility Type Oil Well   Surface Owner   NMOCD   Mineral Owner   NMOCD   API No. 3002520792    LOCATION OF RELEASE   Location   Township   Range   Feet from the   Notification   Feet from the   East-West Line   County    Location   Township   Range   Feet from the   Notification   Feet from the   East-West Line   County    Latitude   22.783288382327   Longitude   103.481947423473    NATURE OF RELEASE    Type of Release   Spill   Volume of Release   Page   Page   Date and Hour of Discovery   SAME										
Release Notification and Corrective Action OPERATOR  Initial Report  Final Report  Address 29 Vacuum Complex Lene  Telephone No.  Facility Type Oil Well  Surface Owner MOCD  Mineral Owner MOCD  Mineral Owner MOCD  API No. 3002520792  LOCATION OF RELEASE  Until Letter   Section   Township   Range   Feet from the   NorthSouth Line   Feet from the   Lea    Latitude_32_7852833832227   Longitude_103_481947423473  NATURE OF RELEASE  Until Letter   Section   Township   Range   Feet from the   NorthSouth Line   Feet from the   Lea    Latitude_32_78528338382227   Longitude_103_481947423473  NATURE OF RELEASE  Type of Release Spill   Volume Recovered S0 BBLS   Volume Recovered S0 BBLS    NATURE OF RELEASE   Date and Hour of Discovery   SAME    Source of Release Offside Casing Valve   Date and Hour of Discovery   SAME    Was Immediate Notice Given?   Yes   No   Not Required    Was Immediate Notice Given?   Yes   No   Not Required    Was Advercourse Reached?   Yes   No   Not Required    If Wascrourse was Impacted, Describe Fully.*    Describe Cause of Phyllem and Remarked Action Taken.* The offside casing valve was left open after being hot watered the previous day. MSO isolated the well and solitied supervisor and ISS.  Describe Cause of Phyllem and Remarked Action Taken.* The offside casing valve was left open after being hot watered the previous day. MSO isolated the well and solitied supervisor and ISS.  Describe Cause of the critical and Cleanup Action Taken.* The offside casing valve was left open after being hot watered the previous day. MSO isolated the well and solitied supervisor and ISS.  Describe Cause Forted and Cleanup Action Taken.* The offside casing valve was left open after being hot watered the previous day. MSO isolated the well and solitied supervisor and ISS.  Describe Cause Forted and Cleanup Action Taken.* The offside casing valve was left open after being hot watered the previous day. MSO isolated the well and solitied supervisor and ISS.  Describe Cause Forted and Cleanup Action Taken.* The offsid										
Surface Owner NMOCD Mineral Owner	NMOCD		API No	3002520	)792					
LOCATIO	N OF RE	LEASE								
Unit Letter Section Township Range Feet from the North	/South Line	Feet from the		-						
		l	<u> </u>	Lea						
<b>Latitude_32.7832838382327</b>	Longitue	le103.481947	423473_							
Source of Release Offside Casing Valve			Date and	Hour of Dis	covery SAME					
Was Immediate Notice Given?										
☐ Yes ☒ No ☐ Not Required	Geoffrey I	eking								
	If YES, V	olume Impacting	the Watercourse.							
Release Notification and Corrective Action  OPERATOR  Initial Report  Final Report  Address 29 Vacuum Complex Lane  Telephone No.  Facility Type Oi Well  Facility Type Oi Release Septimate Oil Well  Facility Type Oil Well  Facility Oil Well  Fac										
	ing valve was	left open after beir	g hot watered the pr	evious day.	MSO isolated the					
	0.006 aguaga 6	£1 d o	d lease === d == d ===	21	0.070					
nasture land and lease road. RECS personnel were on site beginning on Mar	9,000 square i ch 11 <sup>th</sup> , 2014 t	eet of lease pad an o assess the release	e. Eight samples wer	r-sprayed 31 re taken with	in the overspray area					
and three vertical were installed in the release area on the lease pad. All surfa	ace overspray s	amples were taker	to a commercial lab	oratory for a	analysis. The surface					
was installed to a depth of 2 fect. As the verticals were installed, samples we	re taken at reg	ılar intervals and f	ield tested for chlori	des and orga	nics vapors.					
readings at the base of each vertical were below regulatory standards. Based	on the laborate	ory analysis, a Cor	rective Action Plan (	CAP) was su	ibmitted to NMOCD					
on April 10 <sup>th</sup> , 2014 and approved the same day. NMOCD requested as part of	f their approva	of the CAP that a	discrete sample at \	Vertical 3 be	taken. CAP work					
approved facility for disposal. At the base of the scrape, a 5 point bottom con	nposite was ta	ken to a commerci	al laboratory for anal	lysis. The la	boratory chloride					
DRO reading of 75.3 mg/kg. A total of 860 cubic yards of top soil and 380 c	ubic yards of o	aliche were impor	ted to the site to serv	e as backfill.	. A sample of the					
Release Notification and Corrective Action  OPERATOR  Initial Report										
	est of my kno	wledge and unders	tand that nursuant to	NMOCD ru	les and regulations					
all operators are required to report and/or file certain release notifications and	l perform corre	ctive actions for re	eleases which may en	ndanger publ	lic health or the					
Release Notification and Corrective Action OPERATOR Initial Report Final Report Name of Company ConocoPhillips Address 29 Vacuum Complex Lane Telephone No.										
Signature:										
Printed Name: Sand Cohars	Approved h	Englifonmental S	Specialist:							
A. C.				Date:						
		Approvat:		1	<del></del>					
Date: 112114 Phone: 5-15-290-887 3		<ul> <li>* ** ** ** ** ** ** ** ** ** ** ** ** *</li></ul>		J # ~ /6	1051 XU					

JUL 1 5 2014

470 1419 629338 P70 1419 63077



## **CONOCOPHILLIPS**

P.O. Box 2197 Houston, TX 77252-2197 Phone 281.293.1000

## EVGSAU 0524-098

## Termination Request

API No. 3002520792

Release Date: March 8<sup>th</sup>, 2014

Unit Letter C, Section 5, Township 18S, Range 35E



CONSULTING & SAFETY

PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

July 2<sup>nd</sup>, 2014

#### Tomáš 'Doc' Oberding, PhD

Environmental Specialist – New Mexico Oil Conservation Division Energy, Minerals and Natural Resources Department 1625 N. French Dr. Hobbs, NM 88240

RE: Termination Request ConocoPhillips EVGSAU 0524-098 UL/C sec. 5 T18S R35E API No. 3002520792

#### Dr. Oberding:

ConocoPhillips (CoP) 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 1.8 miles southeast of Buckeye, New Mexico at UL/C sec. 5 T18S R35E. NM OSE records indicate that groundwater will likely be encountered at a depth of approximately 74 +/- feet.

On March 8<sup>th</sup>, 2014, CoP discovered a release from an off-side casing valve on the well that was left open. The valve released a total of 92 barrels of fluid and a total of 50 barrels of fluid was recovered. The release covered 9,886 square feet of lease pad and lease road and over-sprayed 318,078 square feet of pasture land and lease road. NMOCD was notified of the release of March 10<sup>th</sup>, 2014 and an initial C-141 was submitted to NMOCD for their approval (Appendix A).

RECS personnel were on site beginning on March 11<sup>th</sup>, 2014 to assess the release (Figure 1). Eight samples were taken within the overspray area and three vertical were installed in the release area on the lease pad. All surface overspray samples were field tested for chlorides and organic vapors and the samples were taken to a commercial laboratory for analysis. The surface samples from the overspray returned laboratory chloride readings below 250 mg/kg except at Point 1, which had a chloride reading of 256 mg/kg and Point 2, which had a chloride reading of 432 mg/kg. Gasoline Range Organics (GRO) and Diesel Range Organics (DRO) readings for all the overspray samples were below regulatory standards (Appendix B).

Three verticals were installed in the release area on the lease pad. Vertical 1 and Vertical 3 were installed to a depth of 2.5 feet, and Vertical 2 was installed to a depth of 2 feet. As the verticals were installed, samples were taken at regular intervals and field tested for chlorides and organics

vapors. Representative samples were taken to a commercial laboratory for analysis. All three verticals returned elevated laboratory chloride readings and TPH readings at the surface of the verticals. BTEX readings at the surface of the verticals were elevated but still below regulatory standards. At the base of each vertical, the chloride values dropped substantially from the surface readings; although, they were still slightly above regulatory standards. The TPH readings and BTEX readings at the base of each vertical were below regulatory standards.

Based on the laboratory analysis, a Corrective Action Plan (CAP) was submitted to NMOCD on April 10<sup>th</sup>, 2014 and approved the same day. As part of the CAP, the release area on the pad and lease road would be scraped down to 2.5 feet bgs. All the excavated soil would be taken to a NMOCD approved facility for disposal. Clean caliche would be imported to the site to serve as backfill. A sample of the caliche would be taken to a commercial laboratory for analysis to verify chloride levels below 250 mg/kg. The 2.5 foot excavation would be backfilled with the caliche and contoured to the surrounding location.

Two to three applications of Micro-Blaze would be applied over the overspray area. Micro-Blaze contains a blend of wetting agents, nutrients and several strains of safe, non-pathogenic *Bacillus* bacteria. When applied to a hydrocarbon-based or organic spill or contaminant, the wetting agent begins breaking down the contaminants into smaller molecules for more efficient degradation by the microbes, into harmless byproducts like carbon dioxide, water, and trace salts.

NMOCD requested as part of their approval of the CAP that a discrete sample at Vertical 3 be taken.

CAP work began at the site on April 9<sup>th</sup>, 2014. Micro-Blaze was applied throughout the overspray area on three separate dates: April 9<sup>th</sup>, 2014; April 16<sup>th</sup>, 2014 and May 21<sup>st</sup>, 2014. The release area on the pad and lease road was scraped down to 2.5 feet bgs (Figure 2). A total of 1,000 cubic yards of contaminated soil was taken to a NMOCD approved facility for disposal. At the base of the scrape, a 5 point bottom composite was taken and field tested for chlorides and hydrocarbons. The sample was then taken to a commercial laboratory for analysis. The laboratory chloride reading returned a result of 208 mg/kg, and the GRO and DRO readings returned results of non-detect. As requested by NMOCD a discrete sample at Vertical 3 was taken and sent to a commercial laboratory for analysis. The sample returned a laboratory chloride reading of 256 mg/kg, a GRO reading of non-detect and a DRO reading of 75.3 mg/kg (Appendix C).

A total of 860 cubic yards of top soil and 380 cubic yards of caliche were imported to the site to serve as backfill. A sample of the imported soil was taken to a commercial laboratory and returned a chloride result of non-detect. The 2.5 ft scrape was backfilled to 6 in bgs with the top soil and then capped with 6 in of caliche.

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

Given that CoP has completed the work as stated in the approved CAP, CoP respectfully requests 'remediation termination' and site closure. 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,

Lara Weinheimer

Project Scientist

**RECS** 

(575) 441-0431

#### Attachments:

Figure 1 – Initial Sampling Data

Figure 2 – Excavation Data

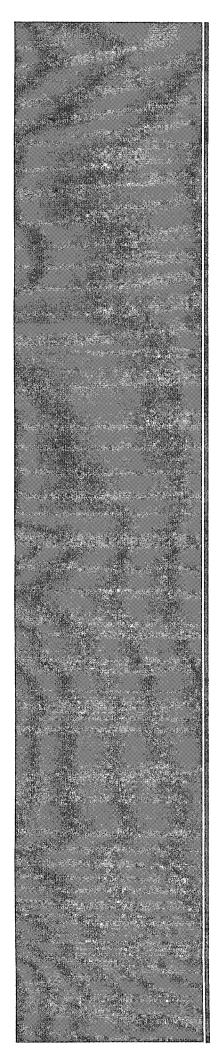
Appendix A – Initial C-141

Appendix B – Initial Sampling Labs

Appendix C – CAP Sampling Labs

Appendix D – Photo Documentation

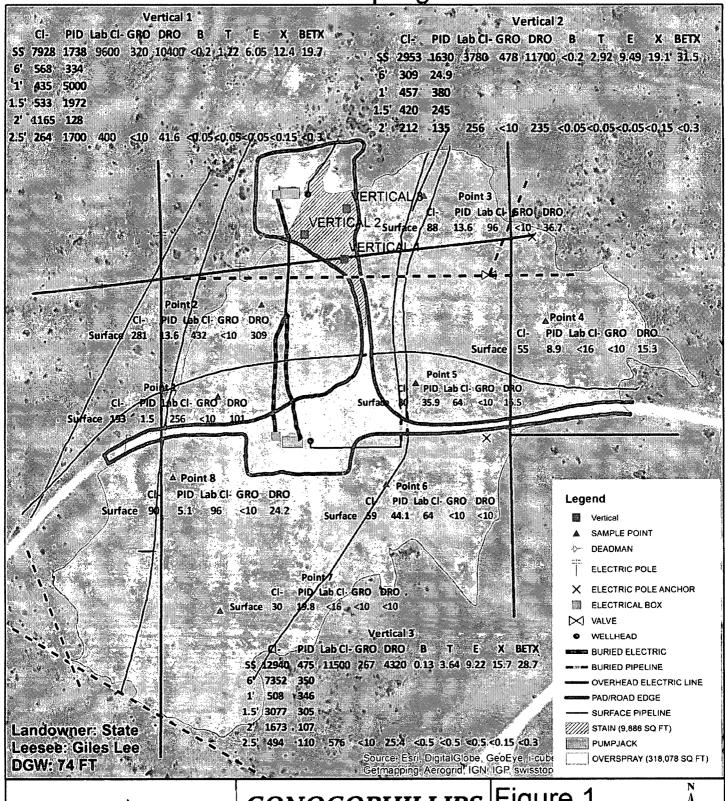
Appendix E – Final C-141



Figures

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

**Initial Sampling Data** 



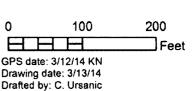


### CONOCOPHILLIPS EVGSAU 0524-098

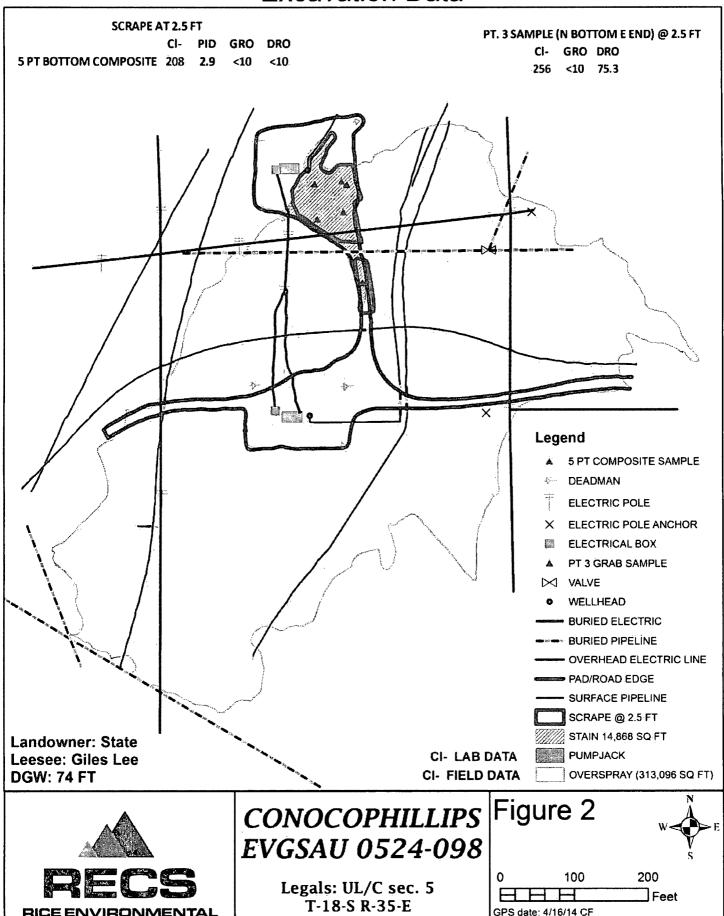
Legals: UL/C sec. 5 T-18-S R-35-E LEA COUNTY, NM

## Figure 1





### **Excavation Data**

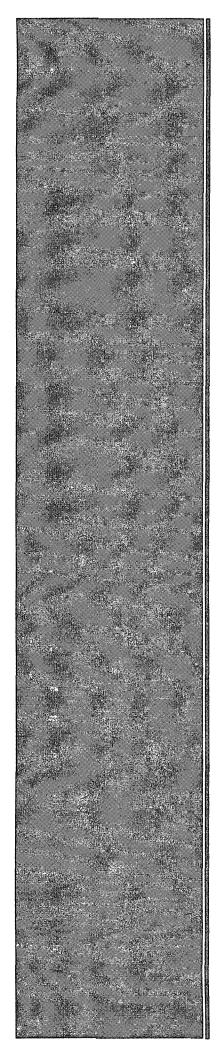


LEA COUNTY, NM

CONSULTING & SAFETY

Drawing date: 4/23/14

Drafted by: L. Weinheimer



Appendix A
Initial C-141

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

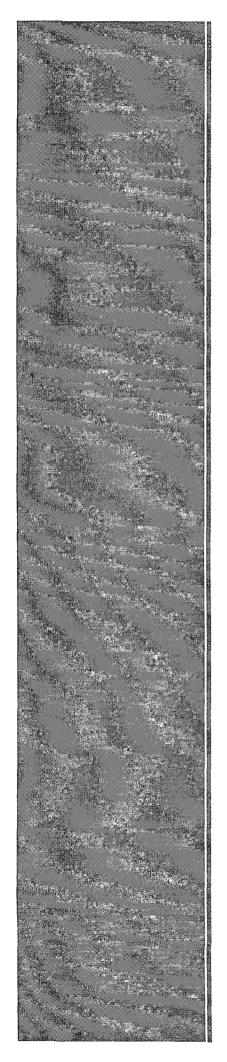
District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

## State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notifica	tion	and Co	orrective A	ction	ì					
		OPERA:	<b>TOR</b>		Initial	al Report		Final Report		
Name of Company: ConocoPhillips			encer Cluff							
Address: 29 Vacuum Complex Lane		relephone 1								
Facility Name: EVGSAU Well 0542-098	1	Facility Typ								
Surface Owner: NMOCD Mineral Ow	ner N	MOCD			API No. 3002520792					
LOCAT	TION	OF RE	LEASE							
		South Line	Feet from the	East/\	Vest Line	County				
, , , , , , , , , , , , , , , , , , , ,	North_		1980	West		LEA				
Latitude 32.7832838382327 Longitude - 103.48194742347		OF REL	EASE							
Type of Release: Spill			Release: 92 BBL	S	Volume I	Recovered: 5	0 BBI	LS		
Source of Release: Offside Casing Valve		Date and I-	lour of Occurrence		Date and	Hour of Dis				
Was Immediate Notice Given?		03/08/14 If YES, To			SAME					
☐ Yes ☐ No ☐ Not Requ	uired	Geoffrey I								
By Whom? David May		Date and I	lour: 03/10/2014	10:00 a	m					
Was a Watercourse Reached? ☐ Yes ☑ No		If YES, Vo	olume Impacting (	the Wate	ercourse.					
If a Watercourse was Impacted, Describe Fully.*		L								
Describe Cause of Problem and Remedial Action Taken.* The off MSO isolated the well and notified supervisor and HSE.	fside (	casing valve	e was left open	after be	ing hot w	atered the p	orevio	us day.		
Describe Area Affected and Cleanup Action Taken.*  Caliche pad area was 138 ft. X 147 ft. and will be remediated according Pasture area was 510 ft. X 540 ft. and will be remediated according										
I hereby certify that the information given above is true and complet regulations all operators are required to report and/or file certain relepublic health or the environment. The acceptance of a C-141 report should their operations have failed to adequately investigate and remore the environment. In addition, NMOCD acceptance of a C-141 regederal, state, or local laws and/or regulations.	ease no by the nediate	otifications a NMOCD m contaminati	nd perform correct arked as "Final R on that pose a thr	ctive act eport" d eat to gr	ions for rel loes not rel round wate	eases which ieve the oper r, surface wa	may e rator o iter, hi	ndanger f liability unan health		
Signature: Spencer A. Cluff			OIL CON	SERV	<u>'ATION</u>	DIVISIO	<u>N</u>			
Printed Name: Spencer Cluff	<i>A</i>	Approved by	Environmental S	pecialis	t:					
Title: LEAD HSE		Approval Dat	le:		Expiration	Date:				
E-mail Address: spencer.a.cluff@conocophillips.com	C	Conditions of	Approval:				_			
						Attached				
Date: 03/11/2014 Phone: 575-391-3143 Attach Additional Sheets If Necessary	3		···							



# Appendix B Initial Sampling Labs

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



March 17, 2014

**KYLE NORMAN** 

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: EVGSAU 0524-098

Enclosed are the results of analyses for samples received by the laboratory on 03/12/14 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keena

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY KYLE NORMAN 419 W. CAIN HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

03/12/2014

Sampling Date:

03/12/2014

Reported:

03/17/2014

Sampling Type:

Soil

Project Name:

EVGSAU 0524-098

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN **NOT GIVEN** 

Sample Received By:

Jodi Henson

#### Sample ID: PT. 1 SURFACE (H400757-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/13/2014	ND	416	104	400	3.92	
TPH 8015M	mg/kg		Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/14/2014	ND	212	106	200	7.29	
DRO >C10-C28	101	10.0	03/14/2014	ND	206	103	200	2.06	
Surrogate: 1-Chlorooctane	89.7	% 65.2-14	0			-			

Surrogate: 1-Chlorooctadecane

99.7%

113 %

63.6-154

63.6-154

#### Sample ID: PT. 2 SURFACE (H400757-02)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	03/13/2014	ND	416	104	400	3.92	
TPH 8015M	1 8015M mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/14/2014	ND	212	106	200	7.29	
DRO >C10-C28	309	10.0	03/14/2014	ND	206	103	200	2.06	
Surrogate: 1-Chlorooctane	91.7	% 65.2-14	0					-	

Cardinal Laboratories

Surrogate: I-Chlorooctadecane

\*=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 & Keena



RICE ENVIRONMENTAL CONSULTING & SAFETY

KYLE NORMAN 419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: Reported: 03/12/2014

03/17/2014

Project Name: Project Number: EVGSAU 0524-098 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

ate: 03/12/2014

Sampling Type: Sampling Condition: Soil Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: PT. 3 SURFACE (H400757-03)

Chloride, SM4500Cl-E	B
----------------------	---

m

Analyzed By: AP

9	9						_	
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
96.0	16.0	03/13/2014	ND	416	104	400	3.92	
mg/kg Analyzed By: ms			d By: ms					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	03/14/2014	ND	212	106	200	7.29	
36.7	10.0	03/14/2014	ND	206	103	200	2.06	
	Result  96.0  mg,  Result  <10.0	96.0 16.0 mg/kg  Result Reporting Limit <10.0 10.0	Result         Reporting Limit         Analyzed           96.0         16.0         03/13/2014           mg/kg         Analyzed           Result         Reporting Limit         Analyzed           <10.0	Result         Reporting Limit         Analyzed         Method Blank           96.0         16.0         03/13/2014         ND           mg/kg         Analyzed By: ms           Result         Reporting Limit         Analyzed         Method Blank           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS           96.0         16.0         03/13/2014         ND         416           mg/kg         Analyzed By: ms           Result         Reporting Limit         Analyzed         Method Blank         BS           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           96.0         16.0         03/13/2014         ND         416         104           mg/kg         Analyzed By: ms           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           96.0         16.0         03/13/2014         ND         416         104         400           mg/kg         Analyzed By: ms           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           96.0         16.0         03/13/2014         ND         416         104         400         3.92           mg/kg         Analyzed By: ms           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <10.0

Surrogate: 1-Chlorooctane

96.7 %

65.2-140

Surrogate: 1-Chlorooctadecane

106%

63.6-154

#### Sample ID: PT. 4 SURFACE (H400757-04)

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	03/13/2014	ND	416	104	400	3.92	
TPH 8015M	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/14/2014	ND	212	106	200	7.29	
DRO >C10-C28	15.3	10.0	03/14/2014	ND	206	103	200	2.06	
Surrogate: 1-Chlorooctane	89.4	% 65.2-14	0					7	
Surrogate: 1-Chlorooctadecane	93.0	% 63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatspower shall be deemed wawed 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



RICE ENVIRONMENTAL CONSULTING & SAFETY KYLE NORMAN 419 W. CAIN HOBBS NM, 88240

Fax To:

(575) 397-1471

Received: Reported:

03/12/2014

0

03/17/2014

Project Name: Project Number: EVGSAU 0524-098 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

03/12/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: PT. 5 SURFACE (H400757-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/13/2014	ND	416	104	400	3.92	
TPH 8015M	M mg/kg		Analyze	d By: ms				,	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/14/2014	ND	212	106	200	7.29	
DRO >C10-C28	16.5	10.0	03/14/2014	ND	206	103	200	2.06	
Surrogate: 1-Chlorooctane	88.5	% 65.2-14	0						

Surrogate: 1-Chlorooctane 88.5 % 65.2-140
Surrogate: 1-Chlorooctadecane 99.6 % 63.6-154

#### Sample ID: PT. 6 SURFACE (H400757-06)

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	03/13/2014	ND	416	104	400	3.92	
TPH 8015M	M mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/14/2014	ND	212	106	200	7.29	
DRO >C10-C28	<10.0	10.0	03/14/2014	ND	206	103	200	2.06	
Surrogate: 1-Chlorooctane	92.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	98.1	% 63.6-15	4						

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Uability 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 valved 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 claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This

Celey D. Keine



RICE ENVIRONMENTAL CONSULTING & SAFETY

KYLE NORMAN 419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received:

03/12/2014

03/17/2014

Reported: Project Name:

EVGSAU 0524-098 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

92.4%

Sampling Date:

03/12/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: PT. 7 SURFACE (H400757-07)

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	03/13/2014	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/14/2014	ND	212	106	200	7.29	
DRO >C10-C28	<10.0	10.0	03/14/2014	ND	206	103	200	2.06	
Surrogate: 1-Chlorooctane	82.3	% 65.2-14	0						

63.6-154

63.6-154

Surrogate: 1-Chlorooctadecane 88.4 %

#### Sample ID: PT. 8 SURFACE (H400757-08)

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	03/13/2014	ND	416	104	400	3.92	
TPH 8015M	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/14/2014	ND	212	106	200	7.29	
DRO >C10-C28	24.2	10.0	03/14/2014	ND	206	103	200	2.06	
Surrogate: 1-Chlorooctane	88.7	% 65.2-14	0					<u>.</u>	

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 claims based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

Surrogate: 1-Chlorooctadecane



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500CI-B does not require samples be received at or below 6°C

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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Uability 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.

Celeg D. Keine



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

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

(575) 393-2326 FAX (575) 393-2476													
Company Name: RECS	BILL TO	Section 2	•		7	ANAI	YSIS	RE	QUE	ST			
Project Manager: KYLE NORMAN	P.O. #:		,										. j 
Address:	Company:		٠.				<b> </b> :					1755 E. 18 1.	
City: State: Zip:	Attn:									ŀ			
Phone #: Fax #:	Address:				}			·					
Project #: Project Owner: /	City:				.	-							
Project Name:	State: Zip:					,			ľ				
Project Location: CoP EVGSAU \$524-098	Phone #:	12			1	(			1	ŀ	1		
Sampler Name: EDWARD CESAREO	Fax #:	3							Ĭ .			ļ. ·	
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	281	HOL				·		:				
Lab I.D. Sample I.D. AVATER (C)ON VATER	<u> </u>	CHLORIBE	7								,		
# CONTAINERS  GOROUNDWATER  SOIL  OIL	OTHER: OTHER: OTHER: OTHER:								,				
1Pt.1 Surface Q1	3-12-14 1:30			· · · · · ·	$\neg \neg$			<b></b>	<del> </del>		<del> </del>		
ZPt.2 Surface GI	1:35		-							<b>-</b>			
3 Pt.3 Surface GII	1:40		_						1				
4 Pt.4 Surface GI	1:45		/										
	1:50												
5 Pt.5 Surface 61 / Pt.6 Surface 61 / Pt.7 Surface 61 /	1:55		-/-										
7 Pt.7 Surface GII	2:00				•								
8 Pt.8 Surface Q1	2.05								··				
			·										
									L				
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in control analyses. All claims including hose for negligence and any other cause whatscover shall be deemed waived unless made in writing a service. In no offent shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruption affiliates or sudcelsors arising/out of or related to the performance of services hereunder by Cardinal, repardless of whether such clair	nd received by Cardinal within 30 days after completion of b s, loss of use, or loss of profits incurred by client, its subsidia	ie applicab ries,	le			:						•	
Relinquished By:  3-12-14 Regeived By:	Phone Re	sult:	□ Ye:			Add'i i Add'i i	hone	#:					

Relinquished By	Date: Re	egeived By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:  Fax Result: ☐ Yes ☐ No Add'l Fax #:
	Time: 110	Den Genson	REMARKS:
Relinquished By:		ceived By:	honder a rices wd. com
	Time:		I weinheimer Orice-ecs.com
Delivered By: (Circle One)	<u> </u>	Sample Condition   CHECKED BY:	Knorman @ rice. ecs. com
Sampler - UPS - Bus - Other:		Cool Intact (Ivilials)  Ves Yes No No	ecesare o D rice-ecs.com



March 18, 2014

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: EVGSAU 0524-098

Enclosed are the results of analyses for samples received by the laboratory on 03/14/14 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY KYLE NORMAN 419 W. CAIN HOBBS NM, 88240

Fax To:

: (575) 397-1471

Received: Reported: 03/14/2014

03/18/2014

Project Name:

EVGSAU 0524-098

Project Number:

NONE GIVEN

Sampling Date:

03/13/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Project Location:

Sample ID: VERTICAL #1 SURFACE (H400782-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS		***			S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	03/17/2014	ND	2.32	116	2.00	2.90	
Toluene*	1.22	0.200	03/17/2014	ND	2.21	110	2.00	2.66	
Ethylbenzene*	6.05	0.200	03/17/2014	ND	2.16	108	2.00	2.78	
Total Xylenes*	12.4	0.600	03/17/2014	ND	6.27	104	6.00	2.30	
Total BTEX	19.7	1.20	03/17/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIE	193	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9600	16.0	03/18/2014	ND	400	100	400	3.92	
TPH 8015M	mg,	'kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	320	100	03/17/2014	ND	218	109	200	1.74	
GKO CO-CIO									

Surrogate: 1-Chlorooctadecane

317%

63.6-154

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's Hability 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 walved 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, is a consequential damages, and client's a consequential damages, and client's expectation of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, and control initiation, business interruptions, loss of use, or loss of profits incurred by client, is a consequential damages, and control initiation, business interruptions, loss of use, or loss of profits incurred by client, in the control initiation, business interruptions, loss of use, or loss of profits incurred by client, in the control initiation, business interruptions, loss of use, or loss of profits incurred by client, in the control initiation, business interruptions, loss of use, or loss of profits incurred by client, in the control initiation, business interruptions, loss of use and the control initiation in the control initiation, business interruptions, loss of use and the control initiation in the control initiation, business interruptions, loss of use and the control initiation, business interruptions, loss of use and the control initiation, business interruptions, loss of use and the control initiation, business interruptions, loss of use and the control initiation, business interruptions, loss of use and the control initiation in the control initiation, business interruptions, loss of use and the control initiation, business interruptions, loss of use and the control initiation, business interruptions, loss o

Celey & Keene



RICE ENVIRONMENTAL CONSULTING & SAFETY KYLE NORMAN 419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received:

03/14/2014

Sampling Date:

03/13/2014

Reported:

03/18/2014

Sampling Type:

Soil

Project Name:

EVGSAU 0524-098

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #1 2.5' (H400782-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2014	ND	2.32	116	2.00	2.90	
Toluene*	<0.050	0.050	03/17/2014	ND	2.21	110	2.00	2.66	
Ethylbenzene*	<0.050	0.050	03/17/2014	ND	2.16	108	2.00	2.78	
Total Xylenes*	<0.150	0.150	03/17/2014	ND	6.27	104	6.00	2.30	
Total BTEX	<0.300	0.300	03/17/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 9	% 89.4-12	26						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	03/18/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2014	ND	218	109	200	1.74	
DRO >C10-C28	41.6	10.0	03/17/2014	ND	204	102	200	3.74	
Surrogate: 1-Chlorooctane	97.7	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	103 9	% 63.6-15	14						

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and dient'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 & Keine



RICE ENVIRONMENTAL CONSULTING & SAFETY KYLE NORMAN 419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received: Reported: 03/14/2014

03/18/2014

EVGSAU 0524-098

Project Name: Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

03/13/2014

Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: VERTICAL #2 SURFACE (H400782-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	03/17/2014	ND	2.32	116	2.00	2.90	
Toluene*	2.92	0.200	03/17/2014	ND	2.21	110	2.00	2.66	
Ethylbenzene*	9.49	0.200	03/17/2014	ND	2.16	108	2.00	2.78	
Total Xylenes*	19.1	0.600	03/17/2014	ND	6.27	104	6.00	2.30	
Total BTEX	31.5	1.20	03/17/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	213 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3780	16.0	03/18/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	478	100	03/17/2014	ND	218	109	200	1.74	
DRO >C10-C28	11700	100	03/17/2014	ND	204	102	200	3.74	
Surrogate: 1-Chlorooctane	213 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	328 9	% 63.6-15	4						

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine



RICE ENVIRONMENTAL CONSULTING & SAFETY **KYLE NORMAN** 419 W. CAIN HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

03/14/2014

Reported:

03/18/2014

Project Name: Project Number: EVGSAU 0524-098

Project Location:

NONE GIVEN NOT GIVEN

Sampling Date:

03/13/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: VERTICAL #2 2' (H400782-04)

BTEX 8	B021B
--------	-------

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2014	ND	2.21	110	2.00	0.560	
Toluene*	<0.050	0.050	03/17/2014	ND	2.09	105	2.00	0.746	
Ethylbenzene*	<0.050	0.050	03/17/2014	ND	2.03	101	2.00	0.425	
Total Xylenes*	<0.150	0.150	03/17/2014	ND	5.92	98.6	6.00	0.517	
Total BTEX	<0.300	0.300	03/17/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 5	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>256</b> 16.0		03/18/2014	ND	400	100	400	3.92	
TOU COLEM			A 1	al Brassana					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/18/2014	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2014	ND	218	109	200	1.74	
DRO >C10-C28	235	10.0	03/17/2014	ND	204	102	200	3.74	
						·	<u> </u>		

Surrogate: 1-Chlorooctane

99.5 %

65.2-140

Surrogate: 1-Chlorooctadecane

110 %

63.6-154

\*=Accredited Analyte Cardinal Laboratories

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 dalm is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



RICE ENVIRONMENTAL CONSULTING & SAFETY KYLE NORMAN 419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received:

03/14/2014

Sampling Date:

03/14/2014

Reported:

03/18/2014

Sampling Type:

Soil

Project Name:

EVGSAU 0524-098

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

#### Sample ID: VERTICAL #3 SURFACE (H400782-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.130	0.050	03/17/2014	ND	2.21	110	2.00	0.560	
Toluene*	3.64	0.050	03/17/2014	ND	2.09	105	2.00	0.746	
Ethylbenzene*	9.22	0.050	03/17/2014	ND	2.03	101	2.00	0.425	
Total Xylenes*	15.7	0.150	03/17/2014	ND	5.92	98.6	6.00	0.517	
Total BTEX	28.7	0.300	03/17/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	116 %	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11500	16.0	03/18/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	267	50.0	03/17/2014	ND	218	109	200	1.74	
DRO >C10-C28	4320	50.0	03/17/2014	ND	204	102	200	3.74	
Surrogate: 1-Chlorooctane	129 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	163 9	% 63.6-15	4						

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tont, 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 incidential or consequential damages, including, without limitation, business interruptions, loss of loss of profits incurred by client, its subclidaries, 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 L. Keine



RICE ENVIRONMENTAL CONSULTING & SAFETY KYLE NORMAN 419 W. CAIN HOBBS NM, 88240

(575) 397-1471 Fax To:

Received:

03/14/2014

Sampling Date:

03/14/2014

Reported:

03/18/2014

Sampling Type:

Soil

Project Name;

EVGSAU 0524-098

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

96.2 %

63.6-154

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #3 2.5' (H400782-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2014	ND	2.21	110	2.00	0.560	
Toluene*	< 0.050	0.050	03/17/2014	ND	2.09	105	2.00	0.746	
Ethylbenzene*	<0.050	0.050	03/17/2014	ND	2.03	101	2.00	0.425	
Total Xylenes*	< 0.150	0.150	03/17/2014	ND	5.92	98.6	6.00	0.517	
Total BTEX	<0.300	0.300	03/17/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIE	105 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	03/18/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2014	ND	217	108	200	2.29	
		10.0	03/17/2014	ND	213	107	200	1.57	

#### Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=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



#### **Notes and Definitions**

S-0	6	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-0	4	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND		Analyte NOT DETECTED at or above the reporting limit
RPE	)	Relative Percent Difference
**		Samples not received at proper temperature of 6°C or below.
***	ı	Insufficient time to reach temperature.
-		Chloride by SM4500CI-B does not require samples be received at or below 6°C
		Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients 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 walved 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 incurned 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 claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This performance of the services hereunder by Cardinal Laboratories.

Celey D. Keine



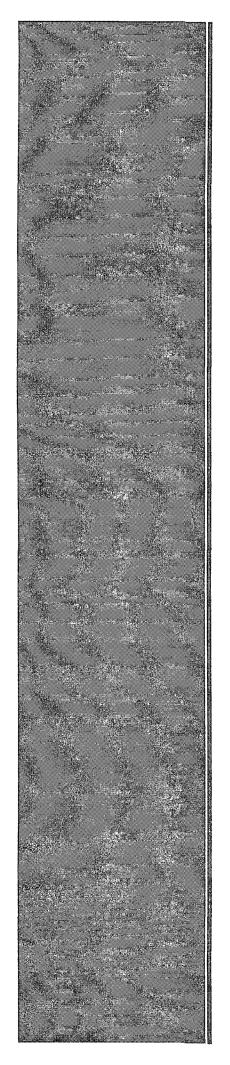
#### **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

101 East Marland, Hobbs, NM 88240

Company Name	o: RECS		· ·				<i>B</i> .	LL TO					-	ANA	YSIS	RE	QUE	ST		
Project Manage	II: KYLE NORM	AN				P.C	O. #:									7.		•		
Address:						Co	mpany:		-	]										
City:	·	State:	Zip	:	·	Att	tn:			<u> </u>								ļ. ·		-
Phone #:		Fax #:				Ad	dress:													
Project #:		Project Owner	:		· · · · · · · · · · · · · · · · · · ·	Cit	y:				٠.									
Project Name:	Property of the Control of the Contr	· ·				Sta	ate:	Zip:											i.	
Project Location	n: COP EYGSAU (	524-698				Ph	one #:			h										ĺ
Sampler Name:	EDWARD CE	SALED			<u></u>		x #:			8										
FOR LAB USE ONLY				ŀ	MATRIX		PRESERV	SAMPL	NG	3	_						4			 l
		· . ·	(C)OMP	ERS	ATER					CHLORIBES	HOL	16.								
Lab I.D.	Sample I.I	),	S OR	ONTAINERS	NOW HIS	انۃا	D/BASE / COOL IER:	1		V	'	B								 ĺ
H4D0782	· . :		(G)RAE	# CON	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER	ACID/BASE ICE / COOL OTHER:	DATE	TIME											· .
1	VERTICAL #1	Surface	6	1				3-13-14	12:30			1/								Ī.,
2	VERTICALAI	1,5'	6	1				3-13-14	12:35			1/								
	· · · · · · · · · · · · · · · · · · ·		_	Ļ		<u> </u>		ļ				ļ.,	. ,							 <u></u>
3	VERTICAL#Z	Surface	SS	Ш				3-13-14						ļ						ļ
<u> </u>	VERTICALH 2	2'	(2)				14	3-13-14	12:40	/		/								
			<u> </u>								<u> </u>						ļ			 ·
5	VERTICAL #3	Surface				-	1/		10:15			/					ļ	-		 
6	VERTICAL#3	2.51	Ca	1		<u> </u>	1	3-14-14	10:20			/		ļ						 
		<del></del>		$\vdash$		+-		<del>                                     </del>		<u> </u>		-								 · ·
PLEASE NOTE: Liability at	nd Damages, Cardinal's liability and client	's exchasive remady for a	ny clai	n acisir	or whether based in contra	t ar tor	t. shall be liquited	to the amount on	d by the client for	the	٠	L	<u> </u>	L						 ·

amiliates of successors ansing outpot of related to the performance of	A Services nergunger by Carginal rega-	HERCES OF WINEGICK SUCH CHAIR IS DASEU	Photo and of the appare praced to	asons of uniterwise.			
Relinquished By:	Date: 2-14-12 Receive	ved By:		Phone Result:	☐ Yes ☐ No	Add'l Phone #:	
	3-14-14 /1,	$ \mathcal{O} = 0$		Fax Result:	☐ Yes ☐ No	Add'l Fax #:	
S. Va. VIII	Tippe.		OM MAHA	REMARKS:			
Relinquished By:		ved By:	010001		hinnder	oricesud.com	
Reinquisited by: (	Date: Recei	veu by.					
	Time:			٠.	Knorman	o rice-ecsicom	
	1 111101					eimer office-ecs.com	
Delivered By: (Circle One)	<del>, , , , , , , , , , , , , , , , , , , </del>	Sample Condition	CHECKED BY:				
	•	Cool intact Ves 4 Yes	(Infliate)		0006/154	e a rice - ecs.com	
Sampler - UPS - Bus - Other:		Yes Yes	LAZ	,	E CE JOHN	e martice records	
		No No	- VX V -		·····		

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to (575) 393,252



## Appendix C CAP Sampling Labs

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



April 22, 2014

**KYLE NORMAN** 

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: EVGSAU 0524-098

Enclosed are the results of analyses for samples received by the laboratory on 04/21/14 16:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey & Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY **KYLE NORMAN** 419 W. CAIN HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

04/21/2014

Sampling Date:

04/21/2014

Reported:

04/22/2014

Sampling Type:

Soil

Project Name:

EVGSAU 0524-098

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

#### Sample ID: N BOTTOM E END @ 2.5' (H401195-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/22/2014	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: CK					·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/22/2014	ND	184	91.9	200	5.44	
DRO >C10-C28	75.3	10.0	04/22/2014	ND	195	97.7	200	3.58	
Surrogate: 1-Chlorooctane	92.7	% 65.2-14	70						

Surrogate: 1-Chlorooctadecane 96.7% 63.6-154

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 claims 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

Celey D. Keine



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°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 evclusive 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 varied 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, white the control of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, white the control of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, white the control of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including those for negligence and on the control of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including those for negligence and any other cause which is control of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including those for negligence and any other cause which is control of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including those for negligence and any other cause which is control of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including those for negligence and any other cause which is control or consequential damages, including those for negligence and any other cause which is control or c

Celey & Keena



Company Name: 2ECS

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

ANALYSIS REQUEST

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

Project Manager: Kyle Normo-						P.0	#:																		
Address:							Con	npa	ny:							2	1						İ		
City: Hobbs	State: NM Zip: 88240						Attr	1:								Cations/Anions									
Phone #:	Fax #:						Add	ires	s:	····						1 5									
Project #:		Project Owner	r:					•	City	ı:				] ,,	Σ		II	1/8		l					
Project Name: (	ones Phillips				~~ P.W. W.W.~	······································			Stat	te:		Zip:		les	15	×	٥	5	١						
	: Elasay 0524-1	398		.,,.	and the same of th				Pho	ле :	<b>#</b> :			Chlorides	TPH 8015 M	BTEX	Texas TPH	at:	TDS						
Sampler Name:									Fax					]		B	X		F	1					
FOR LAB LISE ONLY						M.	ATRI)	X		PRE	SERV	SAMPL	ING	ات ا	立		e	e	l						
<b>Lab I.D.</b> H40195	Sample I.	.D.	(G)RAB OR (C)OMP.	CONTAINERS	GROUNDWATER	WASTEWATER	OIL	LUDGE	ОТНЕВ;	CID/BASE:	ICE / COOL OTHER:	DATE	TIME		<b>!</b>	MALLANDE STATE OF THE STATE OF		Complete	THE THE PARTY OF T						
1.	North Buttom Eas	1 End @ 2.5"	G	Ť		<u> </u>	7	0,	9	اح	713	4-21-14	2:30 000	メ	X	<b> </b>									
2.	C vertical	ζ									İ				······	<b> </b>									
																								.,	
							<u> </u>				1														
			ļ				_												ļ						
		····	<b>!</b>			+	-		_	-	-		<u> </u>			ļ			<b> </b>	<u> </u>					
			├		-		-			_	-					<b> </b>				<b> </b>					
	······································	***************************************	<del> </del>		$\vdash$	-				+	+					<b> </b>									
			<del> </del>		$\vdash$	$\dashv$	+			-	+	1	<u> </u>			<b> </b>				_					
smaryses. All claims including service, in no event shall Call	t Darrages, Cardinal's Asbilly and die g those for negligance and any other o primas be isable for incidental or conser g out of ar related to the performance	teuse whetsoever shall be o querter damages, including	deemed withou	i wajira 4 limba	es un les réce, bu	as made Jaimesa	in write Intervet	ng end Sons, i	neceive one of u	ed by C mak, or	Carcticus Scass of s	within 30 days att Notice incurred by	er completion of the	he sprošeat ries	Xes .				<u> </u>	L	<b>.</b>				
Relinquished By	:	Date: 4-17-74	Re	ceiv	ed E	Ву:							Phone Re Fax Resul		☐ Ye	4 (7)	No	Add'l	Fay#	······					
10 - 1/2		Time:	•										REMARK					1	<u> </u>	_	. I	OAR		Olm	uah t
Relinquished By: Date 21-21-14 Received By:								***	email	resu	sults Sampic			د.	were brought to lab										
Time U.SS A. UM					2/1	1/20	ax	al	;	hoonder		duect				ch	Ч	40	1	ah	!				
Dolivored By: (Circle One) Sample Condition								HEC	KED BY:	lueluha	·····	G					J								
	PS - Bus - Other: Cool Intact    Cool Intact   Ps   Ps   Ps					Yes No	/ (Inklials) I.					·~@		C	910 re	ع د									

BILL TO

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



April 24, 2014

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: EVGSAU 0524-098

Enclosed are the results of analyses for samples received by the laboratory on 04/23/14 15:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY KYLE NORMAN 419 W. CAIN HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

04/23/2014

Reported:

04/24/2014

Project Name: Project Number: EVGSAU 0524-098 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

04/23/2014

Sampling Type:

oil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

#### Sample ID: 5 PT BTTM COMP @ 2.5' (H401226-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/24/2014	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/24/2014	ND	181	90.4	200	1.53	
DRO >C10-C28	<10.0	10.0	04/24/2014	ND	193	96.3	200	0.969	
Surrogate: 1-Chlorooctane	85.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	87.2	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waved 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 claims 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

Celeg D. Keine

Page 2 of 4



## \*Rush\*

#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: RECS								* BILL TO						ANALYSIS REQUEST												
Project Manager: Kyle Nerman							P.O. #:																			
Address:	3					·····			Company:										S							
City: Hobbs State: NM Zip: 88240						Attn:										0										
Phone #:	Fa	x #:							Ad	dres	3 <b>5</b> :								Ę							
Project #:		oject Owner							Cit	y:			***************************************		ιά	Σ		エ	s//							
Project Name: (	Conoco Phillips					^			Sta	te:	,		Zip:		je	5	×	<u>C</u>	o	<b>.</b>						
Project Location	1: ENGSAU 0524-099					••••••			Pho	one	#:		······································		Chlorides	90	BTEX	'n	ati	TDS						
Sampler Name:	Chas Fleres								Fax	¢#:					=	<del>-</del>	Θ	ä	C	-						
Lab I.D. H401226	Sample I.D.			# CONTAINERS	GROUNDWATER		TRID		ACIDIBASE: 33 ICE / COOL 33				SAMPLI DATE	NG TIME	I)	TPH 8015		Texas TPH	Complete Cations/Anions							
	5 Point Bellon Congosile	C 2.5'	<u>C</u>	1							1		4-23-2014	3:00 pm	X	X										
	3				_							_														
												_														
						_			_	-	+	_														
						1			_	_	+															
						+			-1			$\dashv$														
					-	+			┪	{	$\dashv$	-														
					-+	+					$\dashv$	-														
		<u>.</u>			-	+			-	+	1	-1														
	d Damages, Cardinal's liability and client's end																		1	1					1	J
service. In no event shall Co	ig those for negligence and any other cause w ardinal be liable for incidental or consequental	damages, including	er Court	. Frontes	ion, but	iness in	errup.	lone, k	ಯ ಚ	125 A. S	r (6555 -	of pro	office incurred by o	Bert, its subskiller	ips	39 <b>4</b>										
Relinquished By	ng out of or related to the performance of service.  ( : Dal	te:			ed B		MEG (	AMERICA MA	T	a abo	: क्लाकुर	20 W 10	effect sense; (6)	Phone Res	uit:	□ Ye				hone f	7:					
M. 1/2		23-2014 13:55	1	И	M	u	, ~	A	Le	N	U	U	H	Fax Result REMARKS		□ Ye	<b>.</b> Ø	No	Add'i F	*ax #:			***************************************	·····		
Relinquished By: Date: Regelved By:						<i>-</i>	email						l results													
Time:												hoord er	√e													
Delivered By:	(Circle One)		<u></u>		Sa	mple	Cor	nditi	on ]	CHECKED, BY: Knorman@ Weinhelmer@									ı							
Cool Intact/ Sampler - UPS - Bus - Other:				ct/ Yes								9	Cflo	ves (	۵				······························							

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-24



May 05, 2014

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: EVGSAU 0524-098

Enclosed are the results of analyses for samples received by the laboratory on 04/29/14 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY KYLE NORMAN 419 W. CAIN HOBBS NM, 88240

Fax To: (575) 397-1471

Received:

04/29/2014

Sampling Date:

04/28/2014

Reported:

05/05/2014

Sampling Type:

Soil

Project Name:

EVGSAU 0524-098

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN

Sample Received By:

Jodi Henson

#### Sample ID: IMPORTED SOIL (H401289-01)

Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/01/2014	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 subcidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results related above. This performance of the services hereunder by Cardinal Laboratories.

Celey D. Keine

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 ansing, 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 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 & Keine

### ARDINAL LABORATORIES

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

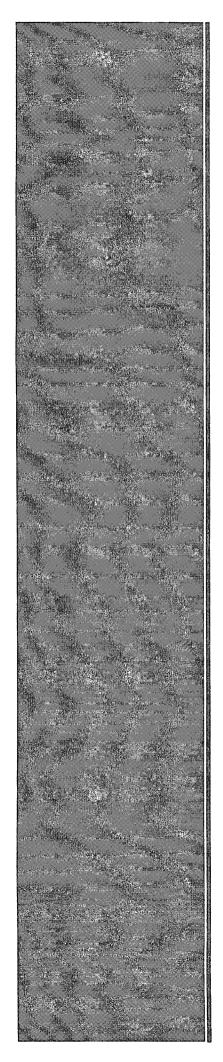
101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name:	RECS							34			9/	ll ro						ANA	LYSIS	RE	QUE	ST		
Project Manager:	Laura Flores . Kyle Norman							P.O. #:																
Address:	0							Company:									S							
City: Hobbs State: NM Zip: 88240					Attn:									Cations/Anions										
Phone #:	Fax #:					Address:																		
Project #:	: Project Owner:					City:					·	Σ		エ	1/8									
Project Name: 🐧	oucco Phillips							Sta	ate:			Zip:		ğ	5	×	0	5						
	EUCSAU 0524-098							Ph	one	#:				Chlorides	8015	BTEX	Texas TPH	atí	TDS					
Sampler Name:								Fa	x #:					] =	\\ \_	8	×a	Ü	F					
FOR LAB USE ONLY		Τ.			M	TRI	K.		PRE	SE	RV.	SAMPL	ING	Image: contained and image: contained	F		e	ē						J
Lab I.D. H401249	Sample I.D.	(G)RAB OR (C)OMP	- # CONTAINERS	GROUNDWATER	WASTEWATER S SOII	710	SLUDGE	Отнея:	ACID/BASE:	√ ICE / COOL	OTHER:	DATE	TIME 9:00 Ar	<u>×</u> .				Complete						
		-	-	$\dashv$		<del>-</del>				-				ļ	ļ									 
		-	-		-	ļ								<b> </b>	<b> </b>									 
			$\vdash$	┪	-	-		-	-					<b> </b> -	ļ									 
		╁				1								<b></b>	<b>!</b>			~~~						 
		1	H	十	+	+			H					<b> </b>	<b>-</b>									 
		1	1	十		T									<b> </b>									
				T	T	<del></del>				7		***************************************			<u> </u>									
***************************************				$\neg$					m	······································		**************************************	***************************************			***************************************	**************************************	· 641111116					h 54.1 ( 1 / h / h / h / h / h / h / h / h / h /	 
analyses. As claims 'including!' senice, in no event shas Cord	Demages. Cartifred's tectory and client's excisione retrievy for trase for negligence and any other cause inpationerer shall be that the liable for recisional or consequental demages, including out of or related to the performance of services because the	e daeme ng witho Cardina	a waive ut limita	d umles ion, bu iless of	i made inexs : whoths	in with	ng and Book, k	(අතරයේ ජාත්ක ශ්ර	iwed by fusies, o	Card V kost	irusi w od go	within 30 days after office movimed by	er completion of the	ne explica vies, se.	≅ø	ে সে	No	Add'l i	hone	4-				

Relinguished By:	Date:	Received By:		Phone Result:	☐ Yes	☑ No	Add'l Phone #:
i . ,	9-24-7514	Ima: M	. 1.60	Fax Result:	☐ Yes	Ø No	Add1 Fax #:
Relinquisted By:	Time :00	CHILL SU	enson	REMARKS:			
Relinquished By:	Date:	Received By:		email: hco	nder@	ricesw	d.com; Iflores@rice-ecs.com;
,		U		lweinheime	rorice	-605 0	om; knorman@rice-ecs.com;
	Time:						
				jkamplain(d	rice-e	cs.com	r; sedwards@rice-ecs.com;
Delivered By: (Circle One)		Sample Conditio		cursanic@	ricaacs	com	
		Cool Intact  Wes D Yes	Mailiales	_			
Sampler - UPS - Bus - Other:		Unives Unives □ No □ No	LIN	Environme	ntal Te	ch:	e Flores @rice-ecs.com

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-24%





## Appendix D Photo Documentation

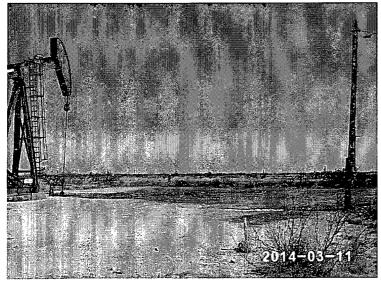
RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

### ConocoPhillips EVGSAU 0524-098 Unit Letter C, Section 5, T18S, R35E



Initial release area, facing south

3/11/14



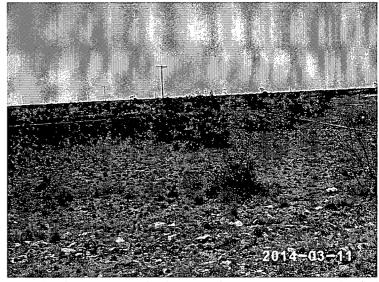
Initial release area, facing east

3/11/14



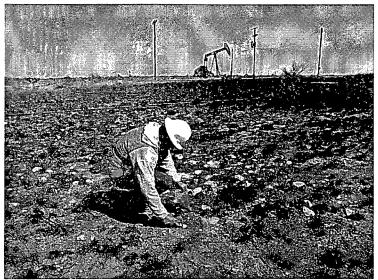
Initial release area, facing southeast

3/11/14

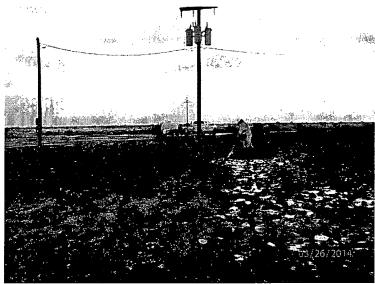


Initial release area, facing southwest

3/11/14



Sampling surface of release, facing northeast 3/12/14

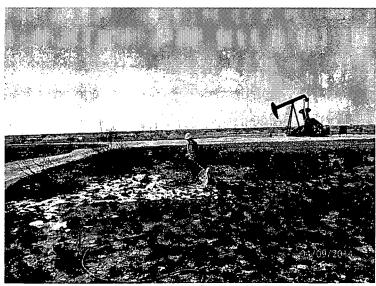


First application of Micro-Blaze, facing northeast 3/26/14

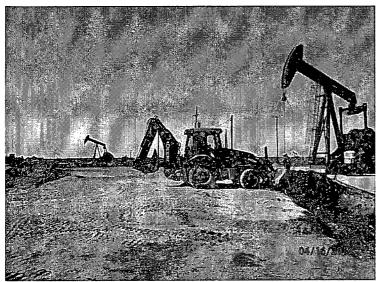


Installing vertical, facing west

3/14/14



Second application of Micro-Blaze, facing south 4/9/14



Excavating release area to 2.5 ft bgs, facing southwest 4/16/14

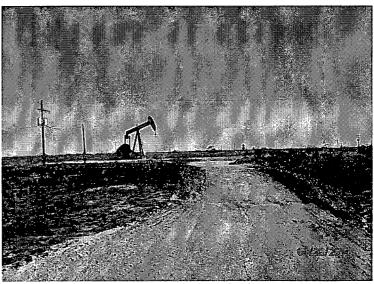


Continue excavating release area to 2.5 ft bgs, facing southwest 4/22/14

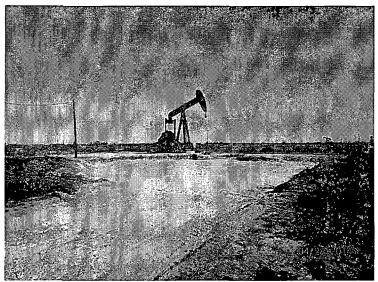


Exporting soil, facing northwest

4/21/14



2.5 ft bgs excavation completed, facing north 4/28/14

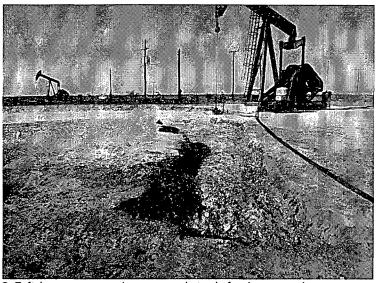


2.5 ft bgs excavation completed, facing northwest 4/28/14

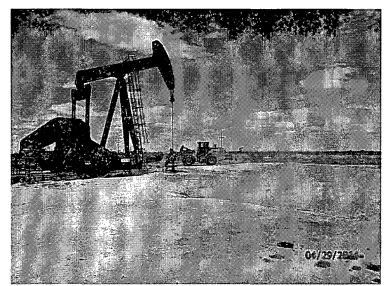


Importing top soil, facing west

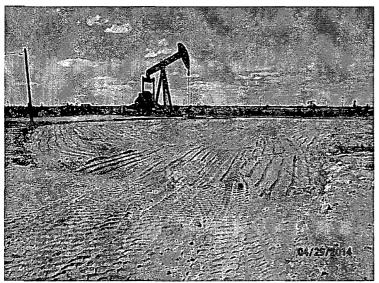
4/29/14



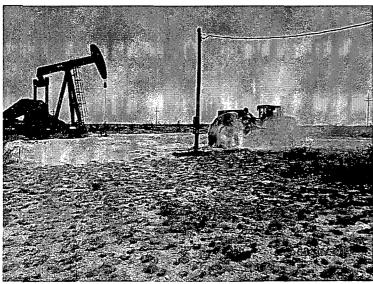
2.5 ft bgs excavation completed, facing southwest 4/28/14



Backfilling with top soil to 6 in bgs, facing northeast 4/29/14



Backfilling with top soil to 6 in bgs completed, facing northwest 4/29/14

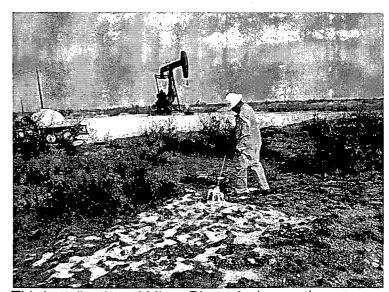


Backfilling the top 6 in with caliche, facing northeast 4/30/14

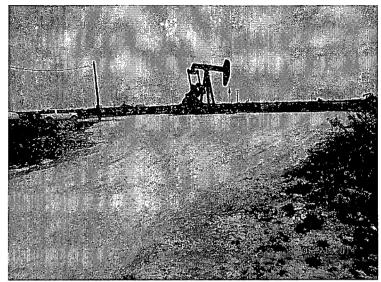


Importing caliche, facing northwest

4/30/14



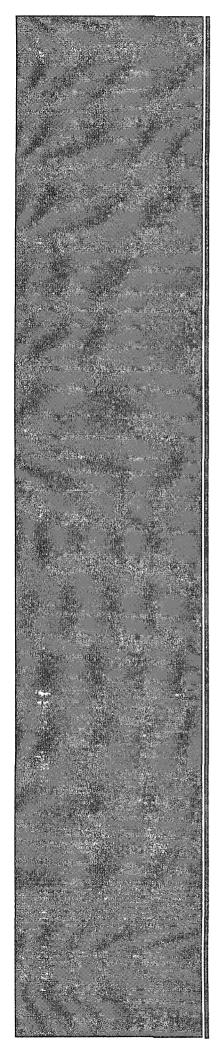
Third application of Micro-Blaze, facing northwest 5/21/14



Site completed, facing northwest 5/21/14



Site completed, facing west 5/21/14



# Appendix E Final C-141

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

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 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

#### State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division

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

·	M 87505	
1220 South St.		

			Rele	ease Notific	cation	and Co	rrective A	ction						
	•					OPERA'	ΓOR	al Report	☐ Final Report					
Name of Co	ompany	ConocoPhil	lips			Contact								
		Complex La				Telephone No.								
Facility Na	me EVGS	SAU Well 05	42-098	<u> </u>	]	Facility Type Oil Well								
Surface Ow	ner NM	OCD		Mineral C	)wner	NMOCD		AI	PI No	. 30025207	92			
	·	· · · · · · · · · · · · · · · · · · ·				ON OF RELEASE								
Unit Letter C	Section 05	Township 18S	Range 35E.	Feet from the 330	1	South Line North	Feet from the 1980	East/West I West	1 1					
	-1		Latitu	le103.481947	423473_		· · · · · · · · · · · · · · · · · · ·							
				NAT	URE	OF REL	EASE							
Type of Rele						Volume of	Release 92 BBI			Recovered 50				
Source of Re	elease Offsi	de Casing Val	ve			Date and F 03/08/14	Iour of Occurrenc 8:30 am	e Date	e and	Hour of Disco	very SAME			
Was Immedi	ate Notice (					If YES, To	Whom?	L						
			Yes 🔀	No Not Re	equired	Geoffrey I								
By Whom?				<del></del>			Iour 03/10/2014							
Was a Water	course Read		Yes 🗵	] No		II YES, Ve	olume Impacting t	ine watercour	rse.					
		pacted, Descr							, ,					
Describe Cau well and notif			dial Actio	n Taken.* The off	side casii	ng valve was	left open after bein	g hot watered	the pr	evious day. M	SO isolated the			
			Action Tal	ken.* The release of	overed 9	,886 square f	eet of lease pad and	d lease road ar	id ove	r-sprayed 318,0	078 square feet of			
											the overspray area			
				-			•				alysis. The surface			
				loride readings belonge Organics (GRC							and Point 2, which			
											feet, and Vertical 2			
				were installed, sam										
				al laboratory for ana										
				surface of the verti										
				ace readings; altho										
				gulatory standards. MOCD requested a										
began at the s	ite on April	9 <sup>th</sup> , 2014. Mic	ro-Blaze v	vas applied through	out the o	versprav area	on three separate	dates: April 9	h. 201	4: April 16 <sup>th</sup> , 20	014 and May 21st			
2014. The re	lease area on	the pad and le	ase road v	vas scraped down to	o 2.5 feet	t bgs. A total	of 1,000 cubic yar	ds of contami	nated	soil was taken t	to a NMOCD			
				crape, a 5 point bot										
				O and DRO readin										
				analysis. The samp yards of top soil an										
imported soil	was taken to	a commercial	laboratory	y and returned a chi	loride res	sult of non-de	ect. The 2.5 ft scr	ape was backf	illed t	o 6 in bgs with	the top soil and			
then capped v	with 6 in of c	aliche.												
				true and complete										
				in release notificati the NMOCD mark										
				amination that post										
				lieve the operator o										
		(11	1							DIVISION				
Signature:	- Jan	1 7												
Printed Nam	e: Seans	Lossa	1 SON			Approved by Environmental Specialist:								
Title:	PELATION"	5 Suf	ELUISO			Approval Da	te:	Expir	ation	Date:				
E-mail Addr	ess: Secr	- Tab	inson (	o ap. com		Conditions o	f Approval:			Attacked				
Date: 1	2/14		Phone	: 575 - 390 - 8						Attached	.			