



March 26, 2020

Bradford Billings  
Hydrologist  
District 2 Artesia  
Oil Conservation Division  
Santa Fe, NM 87505

**Subject:           Closure Letter Report  
                      ConocoPhillips  
                      1RP-3951  
                      EVGSAU Satellite #3 Trunk line Release  
                      Adjacent Well Name: EVGSAU 3202-11  
                      Lea County, New Mexico**

Mr. Billings:

On behalf of ConocoPhillips, Tetra Tech, Inc. (Tetra Tech) submits the following Closure Report for review. The ConocoPhillips East Vacuum Grayburg San Andres Unit (EVGSAU) Satellite #3 trunk line release (the Site) is located approximately 11.5 miles southwest of Hobbs in Lea County, New Mexico. The well listed in the C-141, the adjacent EVGSAU 3202-11, has API # 30-025-26652, and is located in Unit Letter I, Section 32, Township 17 South, and Range 35 East. However, the release occurred from a trunk line in Unit Letter H, Section 32, Township 17 South, and Range 35 East, at coordinates 32.791622°, -103.471708° (Figure 1).

## BACKGROUND

According to the State of New Mexico C-141 Initial Report (Attachment A), on October 30, 2015, a line strike occurred on the trunk line running from EVGSAU Satellite #3 to the EVGSAU central tank battery in the vicinity of the EVGSAU 3202-11 well. The line strike resulted in a release of 54 barrels (bbls) of oil and 423 bbls of produced water. Immediate action was to shut in EVGSAU Satellite #3, isolate the line, and recover 53 bbls of oil and 422 bbls of produced water. Notice was given to the New Mexico Oil Conservation District (NMOCD) and the initial C-141 was approved on November 2, 2015. The site was assigned the Remediation Permit (RP) number 1RP-3951.

## SITE CHARACTERIZATION

A site characterization was performed and no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, public or private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. The Site is located in a low karst potential area. However, the site appears to be located immediately adjacent to a playa lake.

Based on data from the New Mexico Office of the State Engineer (NMOSE), there is one water well located in Section 32, Township 17 South, and Range 35 East. Depth to groundwater at this well is 85 feet below ground surface (ft bgs). The site characterization documentation is included in Attachment B.

Bradford Billings

NMOCD

March 26, 2020

## REGULATORY FRAMEWORK

A risk-based evaluation was performed for the Site in accordance with the NMOCD to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil. Based on the site characterization, the RRALs for the Site are as follows:

Constituent	RRAL
Chloride	600 mg/kg
Total TPH	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

## SITE ASSESSMENT / CORRECTIVE ACTION PLAN

A Corrective Action Plan (CAP) was developed for the Site by Basin Environmental Service Technologies (Basin), submitted to NMOCD and conditionally approved by the NMOCD on September 2, 2016 (Attachment C). According to the CAP, the line strike occurred in a pre-existing 7-foot-deep bell hole, which is a bell-shaped hole dug beneath a pipeline to allow for inspection or maintenance of the line. The release affected 1,408 square feet within the bell hole, which was located in a pasture between the EVGSAU Satellite #3 and the EVGSAU central tank battery. (Figure 1, Attachment C)

The CAP details that assessment activities at the Site commenced on August 10, 2016. Post-response activities, samples were collected from two locations starting at the base of the 7-foot bell hole excavation and from four sidewall locations, and then screened with chloride and PID meters. A total of eight samples were sent to Cardinal Laboratories in Hobbs, NM for laboratory analysis. Sample point locations are shown in the "Initial Sampling" map by Basin in Attachment C. The samples sent to the lab were analyzed for chlorides by EPA Method SM4500Cl-B and TPH by EPA Method 8015M. Photo documentation of these activities may be found in Appendix C of Attachment C.

Analytical results from the August 2016 event (Table 1) from soil samples collected at the base of the bell hole exceeded the established RRALs for chlorides down to 8 feet bgs in the area of bottom point 1 and to 9 ft bgs in the area of bottom point 2.

## REMEDIAL ACTIVITIES

The corrective action plan, as proposed in the approved CAP, consisted of excavating the release area around bottom points 1 and 2 to a depth of 8 feet bgs (1 foot below the previously excavated 7-foot bell hole). The conditional approval of the CAP stipulated that the excavation at "Bottom #2" (referred to as "Pt. 2 Bottom" in Table 1) needed to be at 9 feet bgs. It also stipulated that sidewall sampling needed to be conducted at 9 feet bgs.

Remedial activities were completed in accordance with the approved CAP. Confirmation soil and sidewall samples were collected on September 23, 2016 and submitted to Cardinal Laboratories be analyzed for chlorides, and TPH. Laboratory analytical results from this sampling event are included in Attachment D. Analytical results from the confirmation sampling event were below the RRALs for selected constituent concentrations following excavation (Table 1).

Impacted soil excavated from the Site was taken to an NMOCD approved facility for disposal. The excavation was backfilled with clean soil. According to the CAP, areas associated with the remediation efforts were then reseeded with the BLM #2 LPC seed mix.

Bradford Billings

NMOCD

March 26, 2020

## CONCLUSION

Based on the soil assessment and remediation work performed at the Site, ConocoPhillips requests closure for this release. The Final C-141 form is enclosed in Attachment A.

Should you have any questions or comments regarding this report, please do not hesitate to contact me by telephone at 512-338-2861 or by email at [christian.llull@tetrattech.com](mailto:christian.llull@tetrattech.com).

Sincerely,



Christian M. Llull  
Project Manager  
Tetra Tech, Inc.

## **FIGURES**





## **TABLES**

TABLE 1  
SUMMARY OF ANALYTICAL RESULTS  
EVGSAU SATELLITE #3 TRUNK LINE RELEASE  
1RP-3951  
LEA COUNTY, NM

Sample Date	Sample ID	Sample Depth	Field Screening Results		Chloride <sup>1</sup>		TPH					BTEX <sup>4</sup>									
			Chlorides	PID			GRO (C <sub>3</sub> - C <sub>10</sub> ) <sup>2</sup>		DRO (C <sub>10</sub> - C <sub>28</sub> ) <sup>3</sup>		TPH (GRO + DRO)	Benzene		Toluene		Ethylbenzene		Xylene		Total BTEX	
		ft bgs	ppm		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
8/10/2016	Wall Pt. 1	-	-	1.1	256		<10.0		18.7		18.7	-		-		-		-		-	
	Wall Pt. 2	-	-	0.9	256		<10.0		285		285	-		-		-		-		-	
	Wall Pt. 3	-	-	1.2	288		<10.0		21.5		21.50	-		-		-		-		-	
	Wall Pt. 4	-	-	1.2	272		<10.0		745		745	-		-		-		-		-	
	Pt. 1 Bottom	7	<b>2756</b>	0.0	-		-		-		-	-		-		-		-		-	
		8	<b>781</b>	0.7	-		-		-		-	-		-		-		-		-	
		9	-	1.1	320		<10.0		84.90		84.9	-		-		-		-		-	
		10	-	0.9	48		<10.0		<10.0		0	-		-		-		-		-	
	Pt. 2 Bottom	7	<b>738</b>	1.0	-		-		-		-	-		-		-		-		-	
		8	<b>873</b>	0.5	-		-		-		-	-		-		-		-		-	
		9	-	0.0	<b>640</b>		<10.0		39		39	-		-		-		-		-	
		10	-	1.0	80		<10.0		<10.0		0	-		-		-		-		-	
9/23/2016	9' Floor	9	-	-	176		<10.0		<10.0		0	<0.50		<0.50		<0.050		<0.150		<0.300	
	9' Wall	9	-	-	128		<10.0		<10.0		0	<0.50		<0.50		<0.50		<0.150		<0.300	

## NOTES:

ft Feet 1 Method SM4500Cl-B  
bgs Below ground surface 2 Method 8015  
ppm Parts per million 3 Method 8015D/GRO  
mg/kg Milligrams per kilogram 4 Method 8021B  
TPH Total Petroleum Hydrocarbons  
GRO Gasoline range organics ***Bold and italicized values exceed RRLs***  
DRO Diesel range organics

## **ATTACHMENT A**

### **C-141 Forms**

**RECEIVED**

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

By JKeyes at 10:28 am, Nov 02, 2015

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: <b>ConocoPhillips</b>	Contact: <b>Spencer Cluff</b>
Address: <b>29 Vacuum Complex Lane</b>	Telephone No. <b>575-746-7248</b>
Facility Name: <b>EVGSAU 3202-11</b>	Facility Type: <b>Well</b>
Surface Owner: <b>NMOCD</b>	Mineral Owner: <b>NMOCD</b>
API No. <b>30-025-26652</b>	

**LOCATION OF RELEASE**

Unit Letter <b>I</b>	Section <b>32</b>	Township <b>17S</b>	Range <b>35E</b>	Feet from the <b>2600</b>	North/South Line <b>South</b>	Feet from the <b>200</b>	East/West Line <b>East</b>	County <b>LEA</b>
-------------------------	----------------------	------------------------	---------------------	------------------------------	----------------------------------	-----------------------------	-------------------------------	----------------------

Latitude 32.7912865 Longitude -103.4719238 NAD83

**NATURE OF RELEASE**

Type of Release: <b>Spill</b>	Volume of Release: <b>477 BBLS</b>	Volume Recovered: <b>475 BBLS</b>
Source of Release: <b>Trunk line</b>	Date and Hour of Occurrence <b>10/30/2015 10:58 am</b>	Date and Hour of Discovery <b>10/30/2015 11:03 am</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Jamie Keyes</b>	
By Whom? <b>Spencer Cluff</b>	Date and Hour: <b>11/02/2015 10:10 am</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.\*

On October 30, 2015 at 1058 hrs. MDT, a line strike occurred on the trunk line from EVGSAU Satellite #3 to the EVGSAU CTB near the EVGSAU 3202-11 well that resulted in a release of 54 bbls oil and 423 bbls produced water, with 53 bbls oil and 422 bbls produced water recovered. The immediate action was to shut in EVGSAU Satellite #3 and to isolate the line. A work order has been submitted to repair the line and to remediate the area. The area will be remediated according to NMOCD and COPC guidelines.

Describe Area Affected and Cleanup Action Taken.\*

The immediate action was to shut in EVGSAU Satellite #3 and to isolate the line. A work order has been submitted to repair the line and to remediate the area. The area will be remediated according to NMOCD and COPC guidelines.

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.

**OIL CONSERVATION DIVISION**

Signature: <i>Spencer A. Cluff</i>	Approved by Environmental Specialist: <i>Jamie Keyes</i>	
Printed Name: <b>Spencer A. Cluff</b>	Approval Date: <b>11/02/2015</b>	Expiration Date: <b>01/02/2016</b>
Title: <b>LEAD HSE</b>	Conditions of Approval: <b>Discrete site samples required. Delineate and remediate per NMOCD guidelines.</b> <b>Geotagged photos of remediation required.</b>	
E-mail Address: <b>spencer.a.cluff@conocophillips.com</b>	Attached <input type="checkbox"/> <b>IRP-3951</b>	
Date: <b>11/02/2015</b>	Phone: <b>575-746-7248</b>	

\* Attach Additional Sheets If Necessary

nJXK1530637430  
pJXK1530637584

Incident ID	NJXK1530637430
District RP	
Facility ID	
Application ID	


## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_  
Signature:  \_\_\_\_\_ Date: \_\_\_\_\_  
email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: Jocelyn Harimon Date: 04/14/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  \_\_\_\_\_ Date: 04/14/2023  
Printed Name: Jocelyn Harimon Title: Environmental Specialist

## **ATTACHMENT B**

### **Site Characterization Data**





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,  
O=orphaned,  
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">L 04829 S</a>	L	LE		3	4	32	17S	35E		642554	3628586*	198	85	113

Average Depth to Water: **85 feet**

Minimum Depth: **85 feet**

Maximum Depth: **85 feet**

Record Count: 1

**PLSS Search:**

**Section(s):** 32

**Township:** 17S

**Range:** 35E

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/29/20 12:30 PM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

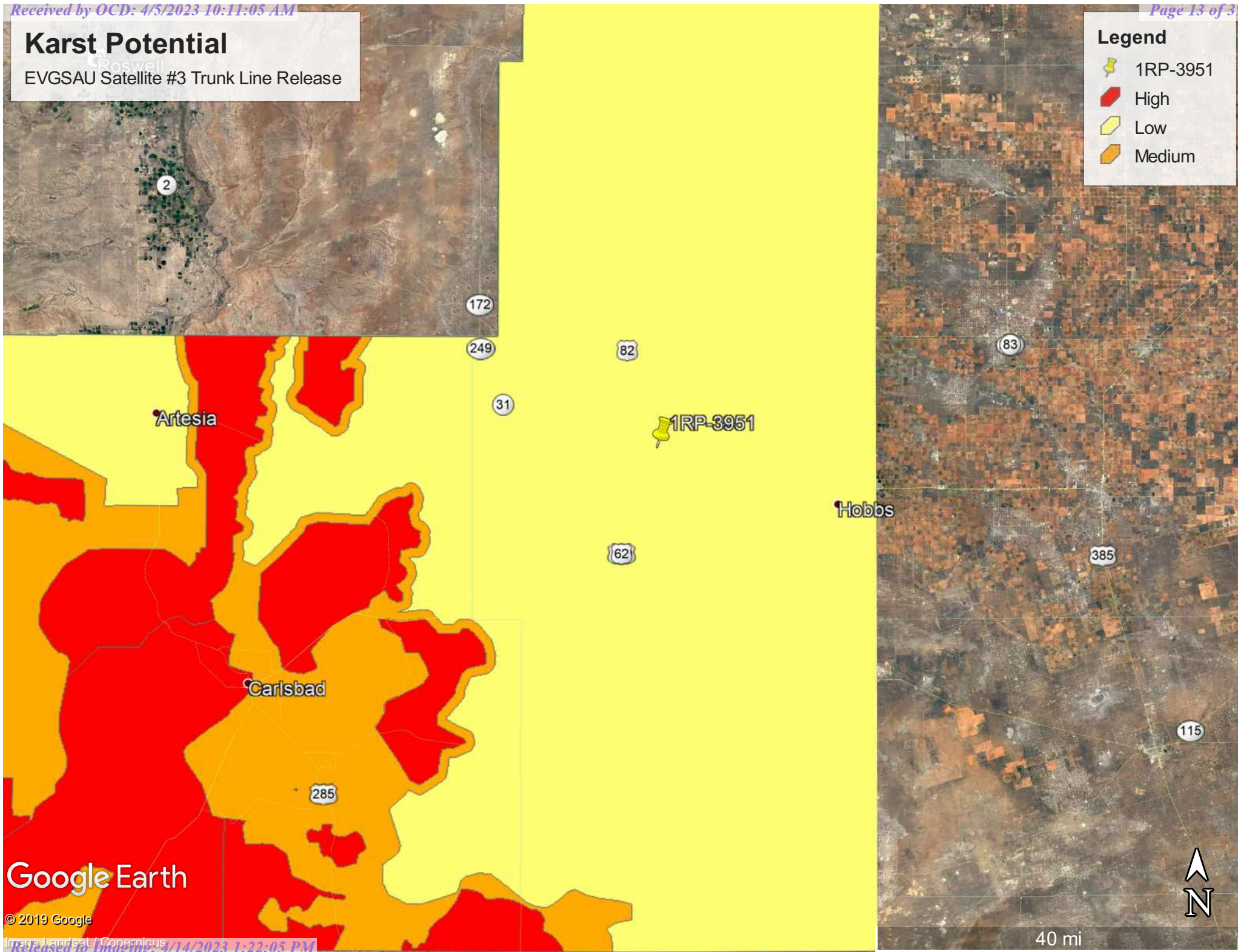


# Karst Potential

EVGSAU Satellite #3 Trunk Line Release

## Legend

- 1RP-3951
- High
- Low
- Medium

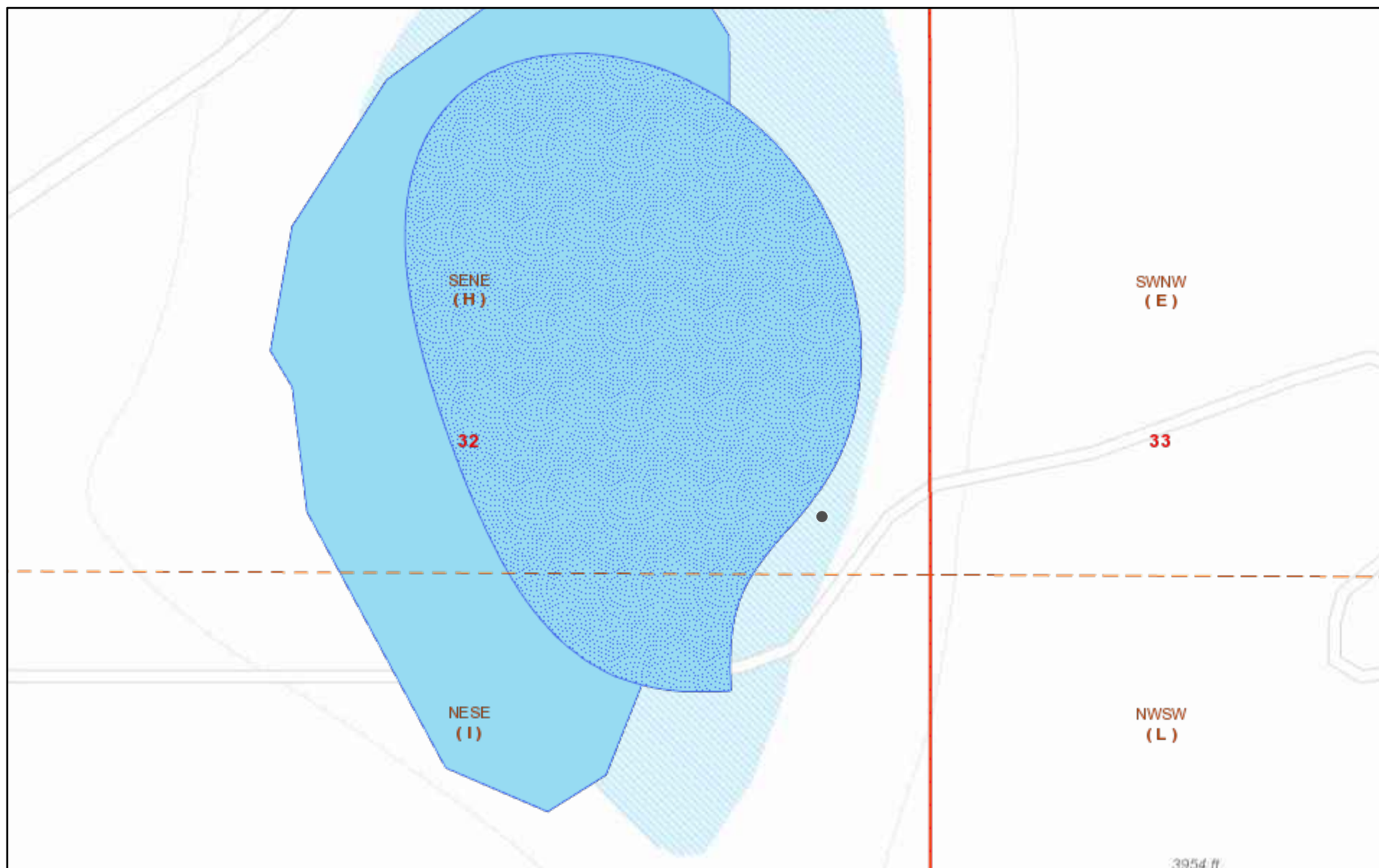


Google Earth







© 2019 Google

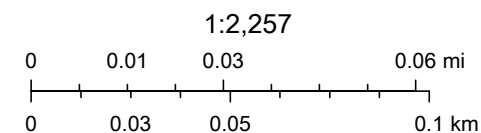
Image Landsat / Copernicus

# Water Bodies



1/29/2020, 1:41:02 PM

- |   |                      |   |                  |   |                      |
|---|----------------------|---|------------------|---|----------------------|
|  | PLSS First Division  |  | PLSS Townships   |  | PLJV Probable Playas |
|  | PLSS Second Division |  | OSE Water-bodies |  | OSE Streams          |



Oil Conservation Division of the New Mexico Energy, Minerals and Natural

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75>: New Mexico Oil Conservation Division

## **ATTACHMENT C**

### **Corrective Action Plan (CAP)**

**REVIEWED**

By Kristen Lynch at 9:47 am, Sep 02, 2016

**APPROVED CONDITIONALLY**

By Kristen Lynch at 9:47 am, Sep 02, 2016



**Conditions of Approval**

A.) Excavation at Bottom #2 needs to be at 9'. Conformation samples, Sidewall sampling to be completed at 9'.

B.) ALL conformation Samples must include Chlorides, TPH, and BTEX.

C.) Notify NMOCD prior to Sampling to allow opportunity to witness

**CONOCOPHILLIPS**

P.O. Box 2197

Houston, TX 77252-2197

Phone 281.293.1000

**EVGSAU 3202-11**  
(1RP-3951)

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**Corrective Action Plan**

API No. 30-025-26652

Release Date: October 30<sup>th</sup>, 2015

Unit Letter H, Section 32, Township 17S, Range 35E



PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

**September 1<sup>st</sup>, 2016**

**Jamie Keyes**

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

**RE: Corrective Action Plan  
ConocoPhillips EVGSAU 3202-1 (1RP-3951)  
UL/H sec. 32 T17S R35E  
API No. 30-025-26652**

Mr. Keyes:

ConocoPhillips (CoP) has retained Basin Environmental Service Technologies to address potential environmental concerns at the above-referenced site.

**Background and Previous Work**

The site is located approximately 2 miles southeast of Buck Eye, New Mexico. The initial C-141 states that the site is located at UL/I Sec. 32 T17S R35E. However, GIS mapping shows the site to be located within UL/H Sec. 32 T17S R35E. NM OSE, BLM and Basin installed monitor well records indicate that groundwater will likely be encountered at a depth of approximately 90 +/- feet.

On October 30<sup>th</sup>, 2015, CoP a line strike occurred on a trunk line, the bell hole is at a depth of 7 feet. A total of 54 barrels of oil and 423 barrels of produced water was released over 1,408 sq ft of pasture land. 422 barrels of produced water and 53 barrels of oil was recovered. NMOCD was notified of the release on November 2<sup>nd</sup>, 2015, NMOCD approved the initial C-141 on the same day (Appendix A).

Basin personnel were on site to assess the release November 1<sup>st</sup>, 2015. The release was mapped and photographed (Figure 1). On August 10<sup>th</sup>, 2016 Field samples were collected starting at the base of the 7 foot excavation and taken with depth and samples were collected on the walls of the excavation and representative samples were sent to a commercial laboratory for analysis (Appendix B). Photo Documentation of these activities may be found in Appendix C.

**Corrective Action Plan**

Based on the assessment, the release area around bottom point 1 and 2 will be excavated to a depth of 8 feet bgs.



All excavated soil will be taken to a NMOCD approved facility for disposal. Clean soil will be imported to the site to serve as backfill. A sample of the backfill soil will be taken to a commercial laboratory to confirm that the chloride reading is below regulatory standards. The lease pad will be backfilled with clean, imported caliche and the pasture will be backfilled with clean, imported top soil. The site will be contoured to the surrounding location.

Revegetation of the site will be performed as follows:

Disturbed areas associated with the remediation efforts will be reseeded. If after one growing season the vegetation has not taken hold, seeding may need to be repeated until revegetation is successful. The seed will be spread using a hand-held broadcaster and the area raked or dragged to cover the seed. Because the seed will be broadcast, the pounds per acre will be doubled. BLM #2 LPC seed mix will be used.

The seed mixture will be planted in the amounts specified in pounds of pure live seed (PLS) per acre. Commercially sold seed will be either certified or registered. The area will be seeded following backfilling of the excavated area.

The site will be visited on a quarterly basis to assess the establishment of vegetative growth. Staff personnel performing the site visit will also look for the presence of noxious weeds at the site. If a noxious weed is observed at the site, CoP will determine the most effective manner to eradicate it.

Once these activities have been completed, a report will be sent to NMOCD and BLM requesting 'remediation termination' and site closure.

Basin appreciates the opportunity to work with you on this project. Please contact me if you have any questions or wish to discuss the site.

Sincerely,



Kyle Norman  
Project Lead  
Basin Environmental Service Technologies  
(575) 942-8542

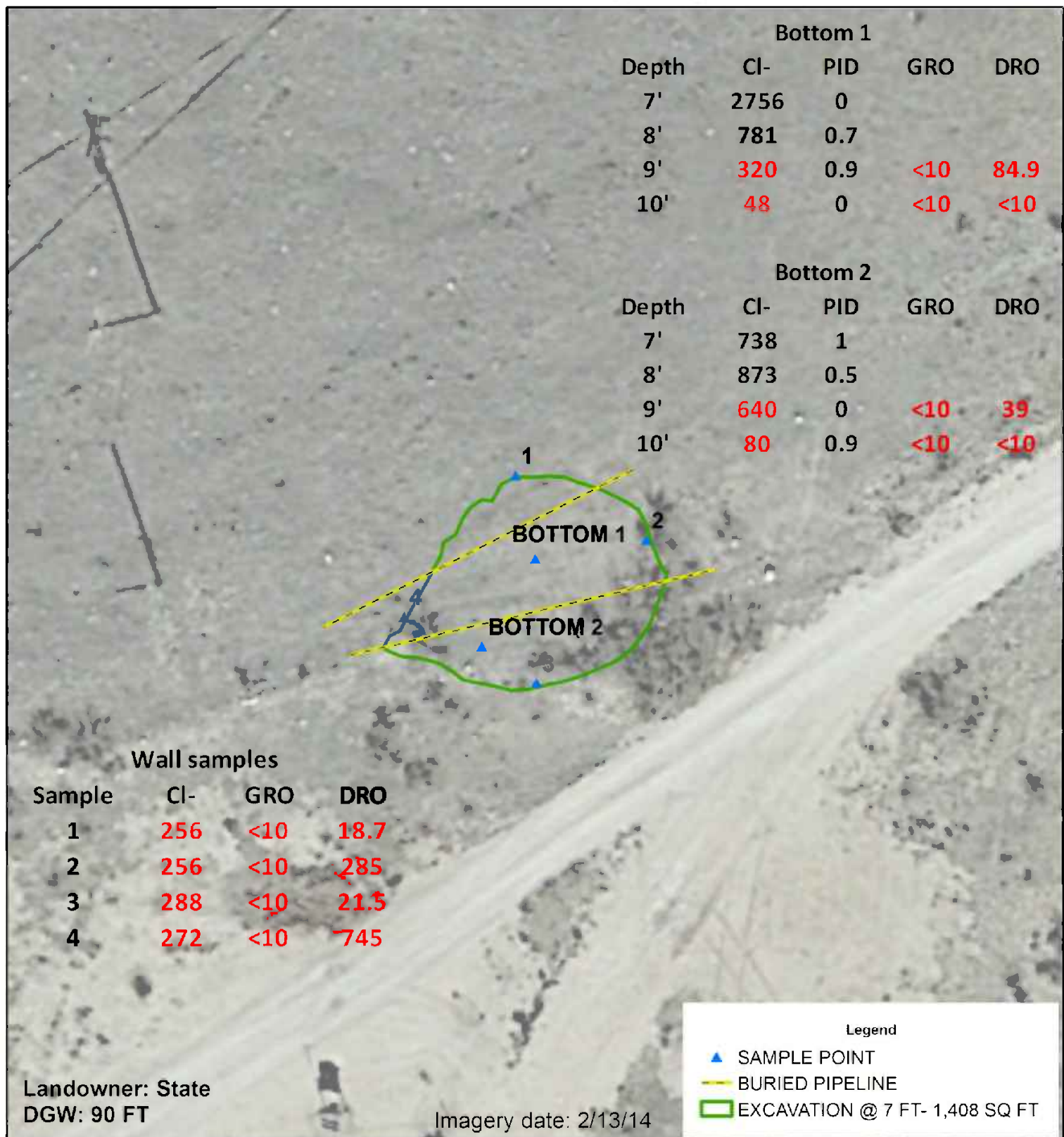
Attachments:

- Figure 1 – Proposed Excavation
- Appendix A – Initial C-141
- Appendix B – Laboratory Analysis
- Appendix C – Photo Documentation

# Figures

**Basin Environmental Service Technologies, LLC**  
P.O. Box 2948, Hobbs, NM 88241  
Phone 575.393.2967

## Initial Sampling



**CONOCOPHILLIPS**  
**EVGSAU 3202-11**

1RP-3951

UL H SECTION 32  
T-17-S R-35-E  
LEA COUNTY, NM

**Figure 1**

GPS: 32.791593 -103.471699

0 10 20  
Feet

GPS date: 8/4/16 JK  
Drawing date: 8/11/16  
Drafted by: T. Grieco





# Appendix A

Intial C-141

**Basin Environmental Service Technologies, LLC**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

**RECEIVED**

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

By JKeyes at 10:28 am, Nov 02, 2015

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: <b>ConocoPhillips</b>	Contact: <b>Spencer Cluff</b>
Address: <b>29 Vacuum Complex Lane</b>	Telephone No. <b>575-746-7248</b>
Facility Name: <b>EVGSAU 3202-11</b>	Facility Type: <b>Well</b>

Surface Owner: <b>NMOCD</b>	Mineral Owner: <b>NMOCD</b>	API No. <b>30-025-26652</b>
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**LOCATION OF RELEASE**

Unit Letter <b>I</b>	Section <b>32</b>	Township <b>17S</b>	Range <b>35E</b>	Feet from the <b>2600</b>	North/South Line <b>South</b>	Feet from the <b>200</b>	East/West Line <b>East</b>	County <b>LEA</b>
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Latitude 32.7912865 Longitude -103.4719238 NAD83

**NATURE OF RELEASE**

Type of Release: <b>Spill</b>	Volume of Release: <b>477 BBLS</b>	Volume Recovered: <b>475 BBLS</b>
Source of Release: <b>Trunk line</b>	Date and Hour of Occurrence <b>10/30/2015 10:58 am</b>	Date and Hour of Discovery <b>10/30/2015 11:03 am</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Jamie Keyes</b>	
By Whom? <b>Spencer Cluff</b>	Date and Hour: <b>11/02/2015 10:10 am</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.\*

On October 30, 2015 at 1058 hrs. MDT, a line strike occurred on the trunk line from EVGSAU Satellite #3 to the EVGSAU CTB near the EVGSAU 3202-11 well that resulted in a release of 54 bbls oil and 423 bbls produced water, with 53 bbls oil and 422 bbls produced water recovered. The immediate action was to shut in EVGSAU Satellite #3 and to isolate the line. A work order has been submitted to repair the line and to remediate the area. The area will be remediated according to NMOCD and COPC guidelines.

Describe Area Affected and Cleanup Action Taken.\*

The immediate action was to shut in EVGSAU Satellite #3 and to isolate the line. A work order has been submitted to repair the line and to remediate the area. The area will be remediated according to NMOCD and COPC guidelines.

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.

**OIL CONSERVATION DIVISION**

Signature: <b>Spencer A. Cluff</b>	Approved by Environmental Specialist: <i>Jamie Keyes</i>	
Printed Name: <b>Spencer A. Cluff</b>	Approval Date: <b>11/02/2015</b>	Expiration Date: <b>01/02/2016</b>
Title: <b>LEAD HSE</b>	Conditions of Approval: Discrete site samples required. Delineate and remediate per NMOCD guidelines. Geotagged photos of remediation required.	
E-mail Address: <b>spencer.a.cluff@conocophillips.com</b>	Attached <input type="checkbox"/> <b>IRP-3951</b>	
Date: <b>11/02/2015</b>	Phone: <b>575-746-7248</b>	

\* Attach Additional Sheets If Necessary

nJXK1530637430  
pJXK1530637584

# Appendix B

## Laboratory Analysis

**Basin Environmental Service Technologies, LLC**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967



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

---

September 01, 2016

KYLE NORMAN

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: EVGSAU 3202-11

Enclosed are the results of analyses for samples received by the laboratory on 08/11/16 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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 "Coley D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Basin Environmental Service  
 KYLE NORMAN  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 08/11/2016  
 Reported: 09/01/2016  
 Project Name: EVGSAU 3202-11  
 Project Number: NONE GIVEN  
 Project Location: CONOCO PHILLIPS

Sampling Date: 08/10/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: WALL PT. 1 (H601790-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>256</b>	16.0	08/11/2016	ND	432	108	400	3.77	
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	08/12/2016	ND	193	96.3	200	2.73	
<b>DRO &gt;C10-C28</b>	<b>18.7</b>	10.0	08/12/2016	ND	197	98.4	200	3.77	
Surrogate: 1-Chlorooctane	95.5 %	35-147							
Surrogate: 1-Chlorooctadecane	102 %	28-171							

**Sample ID: WALL PT. 2 (H601790-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>256</b>	16.0	08/11/2016	ND	432	108	400	3.77	
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	08/12/2016	ND	193	96.3	200	2.73	
<b>DRO &gt;C10-C28</b>	<b>285</b>	10.0	08/12/2016	ND	197	98.4	200	3.77	
Surrogate: 1-Chlorooctane	91.0 %	35-147							
Surrogate: 1-Chlorooctadecane	109 %	28-171							

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Basin Environmental Service  
 KYLE NORMAN  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 08/11/2016  
 Reported: 09/01/2016  
 Project Name: EVGSAU 3202-11  
 Project Number: NONE GIVEN  
 Project Location: CONOCO PHILLIPS

Sampling Date: 08/10/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: WALL PT. 3 (H601790-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	08/11/2016	ND	432	108	400	3.77		
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	08/12/2016	ND	193	96.3	200	2.73		
DRO >C10-C28	21.5	10.0	08/12/2016	ND	197	98.4	200	3.77		

Surrogate: 1-Chlorooctane 94.3 % 35-147

Surrogate: 1-Chlorooctadecane 106 % 28-171

**Sample ID: WALL PT. 4 (H601790-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	08/11/2016	ND	432	108	400	3.77		
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	08/12/2016	ND	193	96.3	200	2.73		
DRO >C10-C28	745	10.0	08/12/2016	ND	197	98.4	200	3.77		

Surrogate: 1-Chlorooctane 97.4 % 35-147

Surrogate: 1-Chlorooctadecane 141 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Basin Environmental Service  
 KYLE NORMAN  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 08/11/2016  
 Reported: 09/01/2016  
 Project Name: EVGSAU 3202-11  
 Project Number: NONE GIVEN  
 Project Location: CONOCO PHILLIPS

Sampling Date: 08/10/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: PT. 1 BOTTOM @ 9' (H601790-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>320</b>	16.0	08/11/2016	ND	432	108	400	3.77	
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	08/12/2016	ND	193	96.3	200	2.73	
<b>DRO &gt;C10-C28</b>	<b>84.9</b>	10.0	08/12/2016	ND	197	98.4	200	3.77	

Surrogate: 1-Chlorooctane 94.8 % 35-147

Surrogate: 1-Chlorooctadecane 111 % 28-171

**Sample ID: PT. 1 BOTTOM @ 10' (H601790-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	08/11/2016	ND	432	108	400	3.77	
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	08/12/2016	ND	193	96.3	200	2.73	
DRO >C10-C28	<10.0	10.0	08/12/2016	ND	197	98.4	200	3.77	

Surrogate: 1-Chlorooctane 89.1 % 35-147

Surrogate: 1-Chlorooctadecane 99.6 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Basin Environmental Service  
 KYLE NORMAN  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 08/11/2016  
 Reported: 09/01/2016  
 Project Name: EVGSAU 3202-11  
 Project Number: NONE GIVEN  
 Project Location: CONOCO PHILLIPS

Sampling Date: 08/10/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: PT. 2 BOTTOM @ 9' (H601790-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	08/11/2016	ND	432	108	400	3.77	
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	08/12/2016	ND	193	96.3	200	2.73	
DRO >C10-C28	39.0	10.0	08/12/2016	ND	197	98.4	200	3.77	

Surrogate: 1-Chlorooctane 85.9 % 35-147

Surrogate: 1-Chlorooctadecane 97.5 % 28-171

**Sample ID: PT 2 BOTTOM @ 10' (H601790-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/11/2016	ND	432	108	400	3.77	
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	08/12/2016	ND	193	96.3	200	2.73	
DRO >C10-C28	<10.0	10.0	08/12/2016	ND	197	98.4	200	3.77	

Surrogate: 1-Chlorooctane 87.7 % 35-147

Surrogate: 1-Chlorooctadecane 91.4 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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---

**Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by 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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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a light blue horizontal line.

---

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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Conoco Phillips						BILL TO		ANALYSIS REQUEST											
Project Manager: Kyle Norman								P.O. #: Conoco Phil 11103											
Address:								Company: Basin Environmental											
City:						State: Zip:		Attn:											
Phone #:						Fax #:		Address: 419 W. Cain											
Project #:						Project Owner:		City: Hobbs											
Project Location:						FUGSAC 3720-11-3802-11 *		State: NM Zip: 88240											
Sample Name:						FUGSAC		Phone #:											
FOR LAB USE ONLY						(G)RAB OR (C)OMP.		Fax #:											
Lab I.D.						Sample I.D.		PRESERV		SAMPLING									
HWD1790						# CONTAINERS		MATRIX		DATE TIME									
1 Wall Pt. 1						GROUNDWATER		SOIL		8-10-16 8:30									
2 Wall Pt. 2						WASTEWATER		OIL		" " 9:00									
3 Wall Pt. 3						SLUDGE		OTHER :		" " 9:30									
4 Wall Pt. 4						ACID/BASE:		ICE / COOL		" " 10:30									
5 Pt. 1 Bottom @ 9 ft.						OTHER :				" " 11:00									
6 Pt. 1 Bottom @ 10 ft.										" " 11:15									
7 Pt. 2 Bottom @ 9 ft.										" " 11:30									
8 Pt. 2 Bottom @ 10 ft.										" " 11:45									
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 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, 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: 8-11-16		Received By:		Phone Result: Yes No									
Relinquished By: kyle norman						Time: 11:30		kyle norman		Fax Result: Yes No									
Delivered By: (Circle One)						Time:		Received By:		Add'l Phone #:									
Sampler - UPS - Bus - Other:						-16.80		Sample Condition Cool Intact Yes No		CHECKED BY: (initials)									
										Justin Wright									
										email results:knorman@basinenv.com;									
										jkampmain@basinenv.com; tgrico@basinenv.com									

# Appendix C

## Photo Documentation

**Basin Environmental Service Technologies, LLC**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967



## ConocoPhillips EVGSAU 3202-11

Unit Letter H, Section 32, T17S, R35E



Initial release, facing East

11/1/2015



Initial release, facing West

11/1/2015



Bottom point 1, facing NE

8/10/2016



Bottom point 2, facing SW

8/10/2016

**ATTACHMENT D**  
**Laboratory Analytical Results (Confirmation Sampling)**



**REVIEWED**

By Kristen Lynch at 1:04 pm, Oct 05, 2016

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

September 30, 2016

JUSTIN WRIGHT

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: EVGSAU 3202-011

Enclosed are the results of analyses for samples received by the laboratory on 09/23/16 13:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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 dark ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received:	09/23/2016	Sampling Date:	09/23/2016
Reported:	09/30/2016	Sampling Type:	Soil
Project Name:	EVGSAU 3202-011	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

**Sample ID: 9' FLOOR (H602145-01)**

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2016	ND	2.31	115	2.00	0.272	
Toluene*	<0.050	0.050	09/27/2016	ND	2.34	117	2.00	0.0127	
Ethylbenzene*	<0.050	0.050	09/27/2016	ND	2.24	112	2.00	0.841	
Total Xylenes*	<0.150	0.150	09/27/2016	ND	6.74	112	6.00	0.682	
Total BTX	<0.300	0.300	09/27/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/29/2016	ND	416	104	400	0.00	

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	09/26/2016	ND	193	96.3	200	6.67	
DRO >C10-C28	<10.0	10.0	09/26/2016	ND	201	101	200	7.21	

Surrogate: 1-Chlorooctane 78.9 % 35-147

Surrogate: 1-Chlorooctadecane 97.7 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Conoco Phillips - Hobbs  
 JUSTIN WRIGHT  
 P. O. BOX 325  
 Hobbs NM, 88240  
 Fax To: (575) 297-1477

Received: 09/23/2016  
 Reported: 09/30/2016  
 Project Name: EVGSAU 3202-011  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

Sampling Date: 09/23/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: 9' WALL (H602145-02)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2016	ND	2.31	115	2.00	0.272	
Toluene*	<0.050	0.050	09/27/2016	ND	2.34	117	2.00	0.0127	
Ethylbenzene*	<0.050	0.050	09/27/2016	ND	2.24	112	2.00	0.841	
Total Xylenes*	<0.150	0.150	09/27/2016	ND	6.74	112	6.00	0.682	
Total BTX	<0.300	0.300	09/27/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/29/2016	ND	416	104	400	0.00	

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	09/26/2016	ND	193	96.3	200	6.67	
DRO >C10-C28	<10.0	10.0	09/26/2016	ND	201	101	200	7.21	

Surrogate: 1-Chlorooctane 81.0 % 35-147

Surrogate: 1-Chlorooctadecane 100 % 28-171

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





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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

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Celey D. Keene, Lab Director/Quality Manager



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
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[illegible]

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
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**District IV**  
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 204437

CONDITIONS

Operator: Maverick Permian LLC 1111 Bagby Street Suite 1600 Houston, TX 77002	OGRID: 331199
	Action Number: 204437
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	4/14/2023