



March 25, 2020

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

**Subject: Closure Letter Report
ConocoPhillips
1RP-4288
SEMU No. 167 Stuffing Box Release
Unit Letter G, Section 25, Township 20 South, Range 37 East
Lea County, New Mexico**

Mr. Billings:

On behalf of ConocoPhillips, Tetra Tech, Inc. (Tetra Tech) submits the following Closure Report for review. The ConocoPhillips SEMU No. 167 well (the Site) is located approximately 11.5 miles southwest of Hobbs in Lea County, New Mexico. The well has API # 30-025-35938, and is located in Unit Letter G, Section 25, Township 20 South, and Range 37 East, at coordinates 32.545127°, -103.201393° (Figure 1).

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Attachment A), on May 22, 2016, a leak was discovered at the stuffing box at SEMU No. 167, resulting in a release of 6.65 barrels (bbls) of oil, of which 5 bbls were recovered. Immediate action was to repack the stuffing box. Immediate notice was given to the New Mexico Oil Conservation District (NMOCD) and the initial C-141 was approved on the following day, May 23, 2016. The site was assigned the Remediation Permit number 1RP-4288.

SITE CHARACTERIZATION

A site characterization was performed and no watercourses, lakebeds, sinkholes, playa lakes, 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.

Based on data from the New Mexico Office of the State Engineer (NMOSE), there are no water wells located in Section 25, Township 20 South, and Range 37 East. In Township 20 South, Range 37 East, the average depth to groundwater is 44 feet (ft) below ground surface (bgs). The site characterization documentation is included in Attachment B.

A risk-based evaluation was performed for the Site in accordance with the NMOCD guidelines 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

Bradford Billings
NMOCD
March 25, 2020

SITE ASSESSMENT ACTIVITIES

According to documentation provided by COP, on May 24, 2016 Basin Environmental Service Technologies (Basin) personnel were onsite to visually evaluate the release and conduct initial assessment activities at the Site. Time stamped photos from this initial assessment are located in Attachment D. Basin installed three (3) sample points (verticals) and collected a total of seven (7) samples from 6-inch depth intervals. Chloride field screening measurements were recorded, and the collected samples were sent to Cardinal Laboratories in Hobbs, NM. Sample point locations are shown in the "Initial Sampling" map by Basin in Attachment C. The collected samples were analyzed for chlorides by EPA Method SM4500Cl-B, benzene, toluene, ethylbenzene, and xylene (known collectively as BTEX) by EPA Method 8021B, and total petroleum hydrocarbons (TPH) by EPA Method 8015M. Copies of the laboratory analytical report and chain-of-custody documentation are included in Attachment C.

Sampling results (Table 1) associated with location points 1 and 2 revealed that impacted soils were limited to the top 6 inches at on the lease pad. Sample results associated with location point 3 (identified in the figure as the overspray area in the pasture to the north of the pad), indicated that soils in this area were not impacted by the release. Analytical results from the assessment activities are summarized in Table 1.

REMEDIAL ACTIVITIES

The impacted portions of the lease pad were excavated to 2' bgs in 2017 by COP. Confirmation sampling activities were conducted within the release area footprint in November 2017. Three locations (SP #1 through SP #3) were drilled to 8' and two confirmation samples were collected from the boreholes at 2' and 8' bgs intervals. The collected samples were sent to Cardinal Laboratories in Hobbs, NM and analyzed for TPH by Environmental Protection Agency (EPA) Method 8015M, BTEX by EPA Method 8021B, and chlorides by EPA Method SM4500Cl-B. Sampling results associated with the confirmation samples were below the established RRALs for the site (Table 2). Copies of the laboratory analytical report and chain-of-custody documentation are included in Attachment C. The remediated areas and confirmation sampling locations are depicted in Figure 2. Analytical results from the confirmation sampling activities are summarized in Table 2.

VISUAL SITE ASSESSMENT

At the request of ConocoPhillips, Tetra Tech personnel visited the Site on January 23, 2020 to evaluate current conditions at the Site. Photographic documentation from the visual assessment is included as Attachment D. A list of field observations describing the Site follow:

- No evidence of staining was noted at the point of release or on the surrounding caliche pad.

CONCLUSION

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

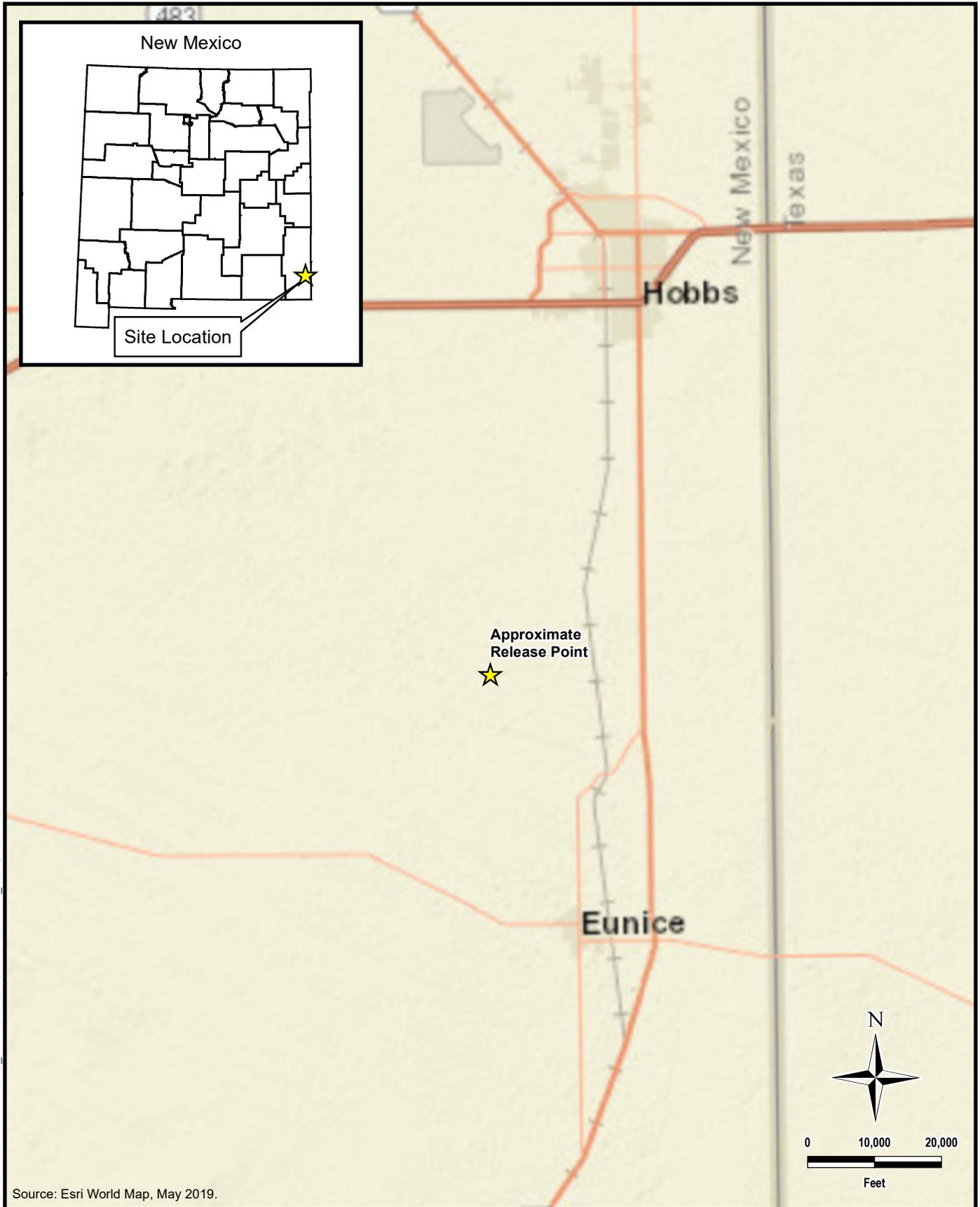
Should you have any questions or comments regarding this report, please do not hesitate to contact me by telephone at 512-338-2861 or by email at christian.llull@tetrattech.com.

Sincerely,



Christian M. Llull
Project Manager
Tetra Tech, Inc.

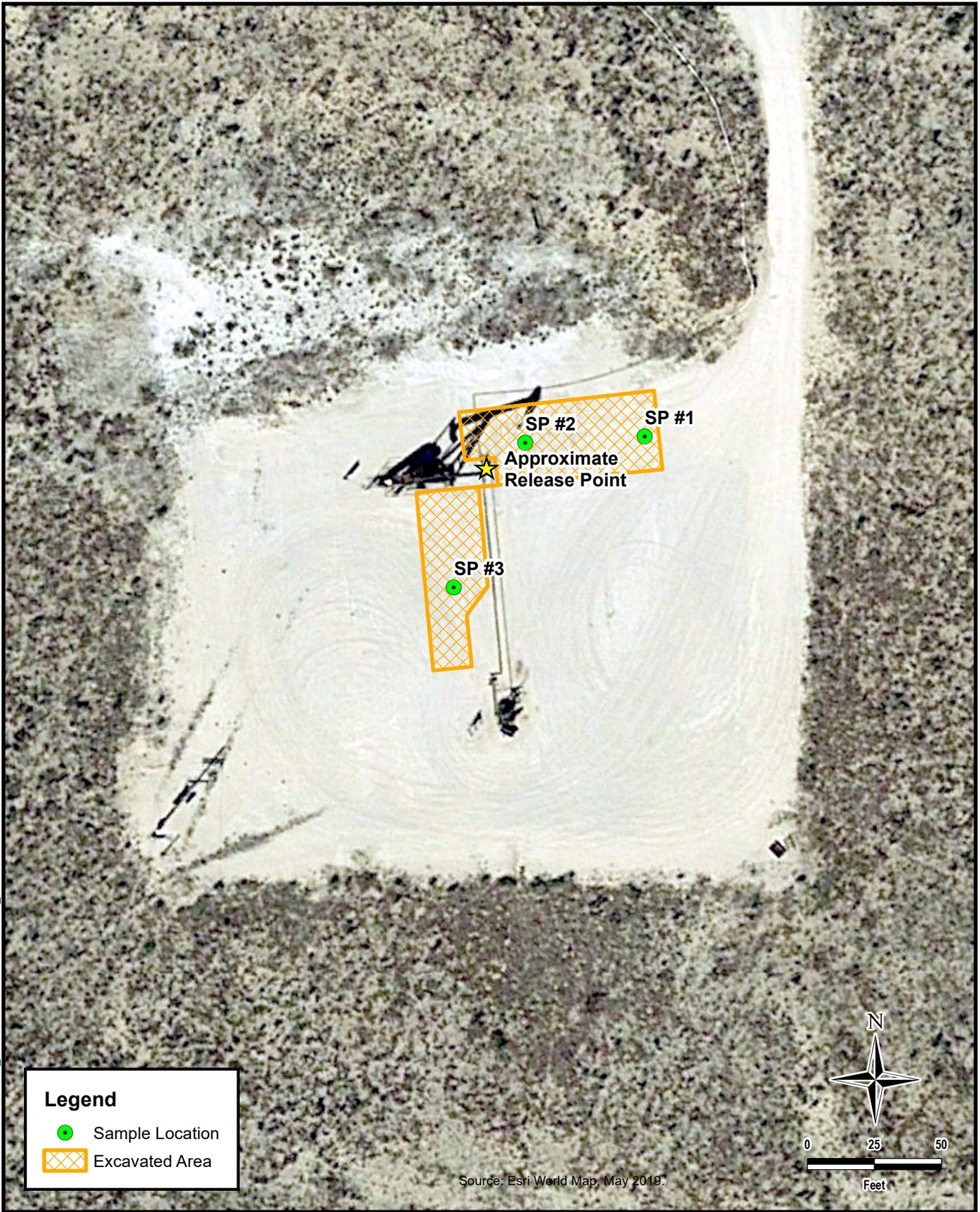
FIGURES



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\SEM167\FIGURE 1 OVERVIEW MAP_SEMU_167.MXD

Source: Esri World Map, May 2019.

 TETRA TECH www.tetrattech.com 901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559 Fax: (432) 682-3946	CONOCOPHILLIPS 1RP-4288 (32.545127°, -103.201393°) LEA COUNTY, NEW MEXICO	PROJECT NO.: 212C-MD-01796 DATE: MARCH 25, 2020 DESIGNED BY: AAM
	SEMU 167 STUFFING BOX RELEASE SITE LOCATION MAP	



Legend

- Sample Location
- Excavated Area



Source: Esri World Map, May 2019.

DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\SEM167\FIGURE 2 RELEASE MAP SEMU 167.MXD

 <p style="text-align: center;">www.tetrattech.com</p> <p>901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559 Fax: (432) 682-3946</p>	<p>CONOCOPHILLIPS</p> <p>1RP-4288 (32.545127°, -103.201393°) LEA COUNTY, NEW MEXICO</p>	<p>PROJECT NO.: 212C-MD-01796</p> <p>DATE: MARCH 25, 2020</p> <p>DESIGNED BY: AAM</p>
	<p>SEMU 167 STUFFING BOX RELEASE APPROXIMATE RELEASE EXTENT AND EXCAVATION</p>	

TABLES

TABLE 1
 SUMMARY OF ANALYTICAL RESULTS
 INITIAL SOIL ASSESSMENT - 1RP-4288
 CONOCOPHILLIPS
 SEMU #167
 LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³				
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		Total TPH
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
PT. 1 @ SURFACE	05/24/16	SURFACE	48.0		< 0.050		< 0.050		0.808		3.73		4.54		366		19100		<i>19466</i>
PT. 1 @ 6"	05/24/16	0.5	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		15.1		15.1
PT. 1 @ 1'	05/24/16	1	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		10.3		10.3
PT. 2 @ SURFACE	05/24/16	SURFACE	560		< 0.050		0.149		0.979		3.83		4.96		212		8110		<i>8322</i>
PT. 2 @ 6"	05/24/16	0.5	64.0	QR-03	< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		-
PT. 2 @ 1'	05/24/16	1	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		-
PT. 3 @ SURFACE	05/24/16	SURFACE	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		-

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline Range Organics

DRO Diesel Range Organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

Bold and italicized values indicate exceedance of proposed RRALs

QUALIFIERS:

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference.

QC batch accepted based on LCS and/or LCSD recovery and/or RPD.

TABLE 2
 SUMMARY OF ANALYTICAL RESULTS
 CONFIRMATION SAMPLING - 1RP-4288
 CONOCOPHILLIPS
 SEMU #167
 LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²								TPH ³								
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ - C ₁₀	Q	>C ₁₀ - C ₂₈	Q	>C ₂₈ - C ₄₀	Q	
ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg				
SP#1	11/21/17	2'	<16.0	Q	<0.050	Q	<0.050	Q	<0.050	Q	<0.150	Q	<0.300	Q	<10.0	Q	<10.0	Q	<10.0	Q	--
	11/21/17	8'	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
SP#2	11/21/17	2'	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		--
	11/21/17	8'	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
SP#3	11/21/17	2'	<16.0	Q	<0.050	Q	0.052	Q	<0.050	Q	<0.150	Q	<0.300	Q	<10.0	Q	<10.0	Q	<10.0	Q	--
	11/21/17	8'	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-

NOTES:

- ft. Feet
 - bgs Below ground surface
 - mg/kg Milligrams per kilogram
 - NA Not analyzed
 - TPH Total Petroleum Hydrocarbons
 - GRO Gasoline Range Organics
 - DRO Diesel Range Organics
- Bold and italicized values indicate exceedance of proposed RRALS***
- 1 Method SM4500C1-B
 - 2 Method 8021B
 - 3 Method 8015M

**ATTACHMENT A
C-141 Forms**

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

RECEIVED

By JKeyes at 8:02 am, May 23, 2016

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: ConocoPhillips	Contact: Jose A Zepeda	
Address: 1410 N West County Road	Telephone No. 575-391-3165	
Facility Name: SEMU 167	Facility Type: Stuffing Box	
Surface Owner: Federal	Mineral Owner: N/A	API No. 30-025-35938

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	25	20S	37E					Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release: OIL	Volume of Release: 6.65	Volume Recovered: 5.0
Source of Release: Stuffing Box	Date and Hour of Occurrence 05/22/2016 0930	Date and Hour of Discovery SAME
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jamie Keyes	
By Whom? Jose A Zepeda	Date and Hour: 05/23/16 0730 via email	
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.* N/A		
Describe Cause of Problem and Remedial Action Taken.* On May 22, 2016 at 0930 MDT at SEMU 167, a leak was found on the stuffing box that resulted in a release of 6.65 bbl. of Oil with 5.0 bbl. recovered. Immediate action was to repack the stuffing box. Spill site will be remediated in place according to NMOCD guidelines.		
Describe Area Affected and Cleanup Action Taken.*		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		

Signature: <i>JOSE A ZEPEDA</i>		OIL CONSERVATION DIVISION	
Printed Name: Jose A Zepeda		Approved by Environmental Specialist: <i>Jamie Keyes</i>	
Title: LEAD HSE	Approval Date: 05/23/2016	Expiration Date: 07/23/2016	
E-mail Address: Jose. A. Zepeda@conocophillips.com	Conditions of Approval: Discrete samples only. Delineate and remediate per NMOCD guidelines. Ensure BLM concurrence/approval.		Attached <input type="checkbox"/> IRP 4288
Date: 05/23/2016	Phone: 575-391-3165		

* Attach Additional Sheets If Necessary

nJXK1614428808
pJXK1614428874

Incident ID	
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: Charles R Beauvais II Date: _____
 email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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: Brittany Hall Date: 3/29/2023
 Printed Name: Brittany Hall 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
L 01145 POD1	L	LE		4	1	4	06	20S	37E	660695	3608182*	75	35	40
L 01253	L	LE		1	3	2	08	20S	37E	662125	3607195*	81	45	36
L 01450	L	LE			3	1	05	20S	37E	661393	3608698*	80	20	60
L 01572 POD1	L	LE		1	3	3	05	20S	37E	661305	3607991*	70		
L 02102	L	LE			4	3	05	20S	37E	661809	3607897*	70	46	24
L 02139	L	LE		2	2	2	08	20S	37E	662721	3607604*	80	38	42
L 02274	L	LE			3	1	08	20S	37E	661420	3607085*	70	38	32
L 02278	L	LE			3	4	05	20S	37E	662212	3607902*	65	37	28
L 02402	L	LE		1	4	1	28	20S	37E	663415	3602377*	60	40	20
L 02450	L	LE			2	2	19	20S	37E	661063	3604259*	70	35	35
L 02451	L	LE			1	1	19	20S	37E	659864	3604241*	70	35	35
L 02460	L	LE			1	2	07	20S	37E	660609	3607477*	82	38	44
L 02463	L	LE		1	2	3	08	20S	37E	661729	3606787*	86	30	56
L 02483	L	LE		4	4	1	08	20S	37E	661922	3606990*	84	34	50
L 02488	L	LE			3	2	05	20S	37E	662199	3608709*	63	32	31
L 02497	L	LE		3	3	3	05	20S	37E	661305	3607791*	75	35	40
L 02533	L	LE			3	2	07	20S	37E	660616	3607074*	82	34	48
L 02553	L	LE		4	3	4	06	20S	37E	660701	3607779*	85	40	45
L 03810	L	LE		4	4	1	06	20S	37E	660286	3608580*	86	37	49
L 04410	L	LE			4	2	19	20S	37E	661070	3603856*	84	35	49
L 04410 S	L	LE		4	1	2	19	20S	37E	660760	3604152*	100	35	65
L 04412	L	LE		4	2	2	13	20S	37E	669181	3605894*	140	85	55
L 04412 S	L	LE		4	4	2	13	20S	37E	669189	3605491*	155	84	71
L 04619	L	LE		3	2	4	06	20S	37E	660897	3608188*	86	36	50
L 04690	L	LE			1	3	07	20S	37E	659826	3606659*	50	28	22
L 05350	L	LE			2	1	13	20S	37E	668279	3605980*	100		

*UTM location was derived from PLSS - see Help

(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 Q Q					X	Y	Depth Well	Depth Water	Water Column			
	64	16	4	Sec	Tws	Rng									
L 05351	L	LE	2	2	13	20S	37E	669082	3605995*		115				
L 05447	L	LE	2	2	05	20S	37E	662594	3609117*		50	28	22		
L 05980	L	LE	1	4	3	04	20S	37E	663319	3608017*		95			
L 07355	L	LE	2	2	1	33	20S	37E	663636	3601169*		120			
L 07619	L	LE	2	2	4	08	20S	37E	662734	3606797*		70	30	40	
L 07620	L	LE	4	4	2	08	20S	37E	662728	3607000*		70	27	43	
L 07620 S	L	LE	4	4	2	08	20S	37E	662728	3607000*		75	35	40	
L 08157	L	LE	2	2	1	33	20S	37E	663636	3601169*		395	275	120	
L 09590	L	LE			4	08	20S	37E	662440	3606491*		70	35	35	
L 09590	R	L	LE		4	08	20S	37E	662440	3606491*		70	35	35	
L 09590 POD2	L	LE			4	08	20S	37E	662440	3606491*		66	30	36	
L 09594	L	LE	2	4	08	20S	37E	662635	3606698*		80				
L 09779	L	LE	2	2	2	05	20S	37E	662693	3609216*		50	40	10	
L 10069	L	LE			1	04	20S	37E	663205	3608920*		39	22	17	
L 10117	L	LE	1	1	2	13	20S	37E	668580	3606086*		130	70	60	
L 10150	L	LE			1	4	09	20S	37E	663842	3606715*		46	30	16
L 13393 POD1	L	LE	1	3	2	31	20S	37E	660519	3600663		95	80	15	
L 13393 POD2	L	LE	1	3	2	31	20S	37E	660522	3600635		95	80	15	
L 13394 POD1	L	LE	3	1	4	31	20S	37E	660566	3600165		100	85	15	
L 13490 POD1	L	LE	3	1	3	21	20S	37E	663365	3603321		30			
L 14330 POD1	L	LE	1	1	4	20	20S	37E	662184	3603500		30	23	7	
L 14330 POD2	L	LE	1	1	4	20	20S	37E	662187	3603507		35	24	11	
L 14330 POD3	L	LE	1	1	4	20	20S	37E	662205	3603494		35	24	11	
L 14330 POD4	L	LE	1	1	4	20	20S	37E	662187	3603492		35	24	11	
L 14330 POD5	L	LE	1	1	4	20	20S	37E	662173	3603503		35	24	11	
L 14330 POD6	L	LE	1	1	4	20	20S	37E	662181	3603504		45	24	21	
L 14330 POD7	L	LE	1	1	4	20	20S	37E	662187	3603497		45	24	21	
L 14583 POD1	L	LE	1	3	1	27	20S	37E	664656	3602312		65	57	8	
L 14583 POD2	L	LE	1	3	1	27	20S	37E	664663	3602307		50			

*UTM location was derived from PLSS - see Help

(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 6	Q 4	Q 16	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
------------	--------------	-------	--------	-----	-----	------	-----	-----	-----	---	---	------------	-------------	--------------

Average Depth to Water: **44 feet**

Minimum Depth: **20 feet**

Maximum Depth: **275 feet**

Record Count: 55

PLSS Search:

Township: 20S

Range: 37E

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.

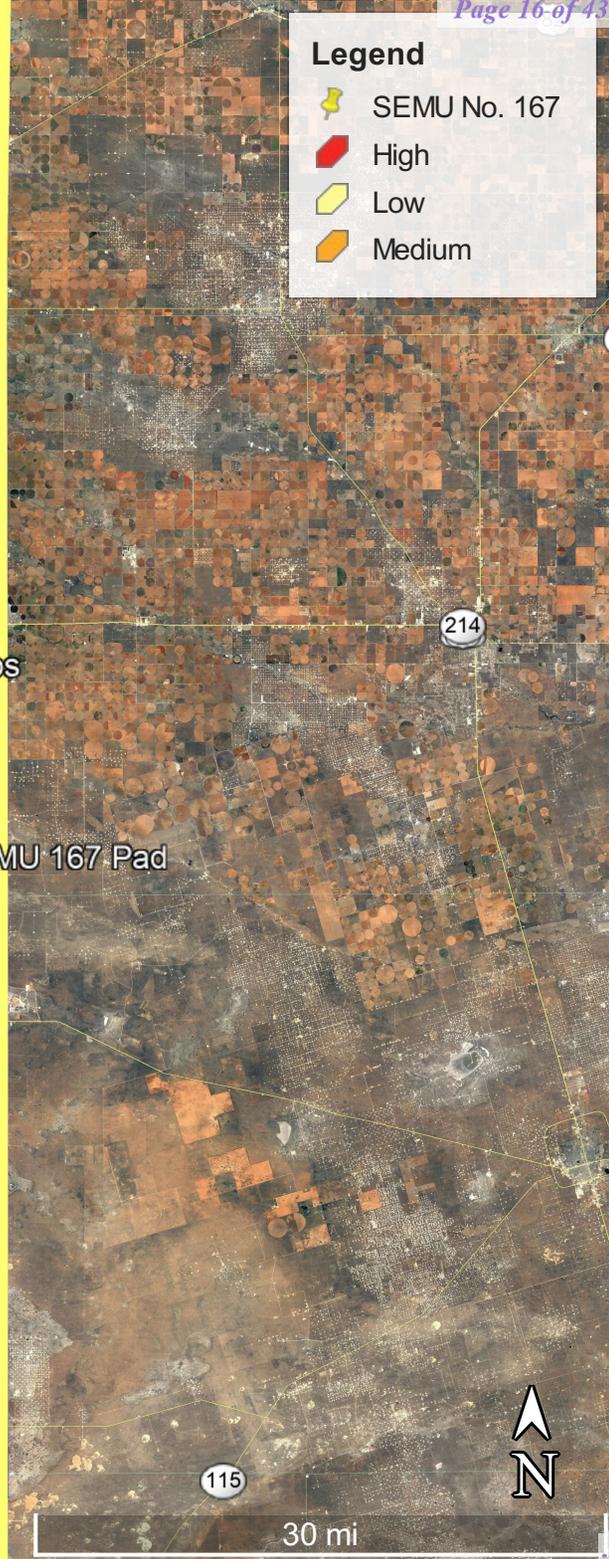
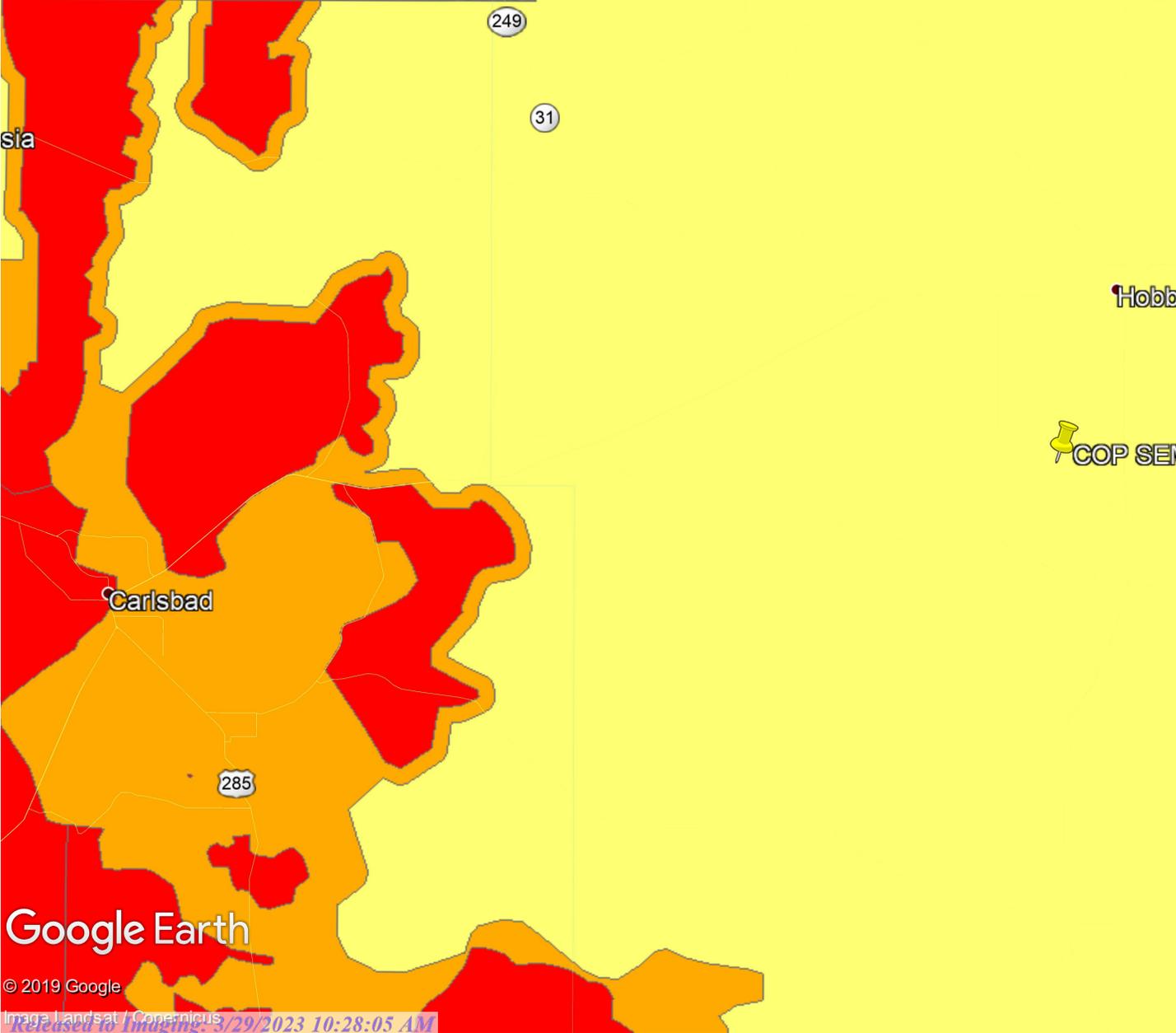
Karst Potential

SEMU No. 167



Legend

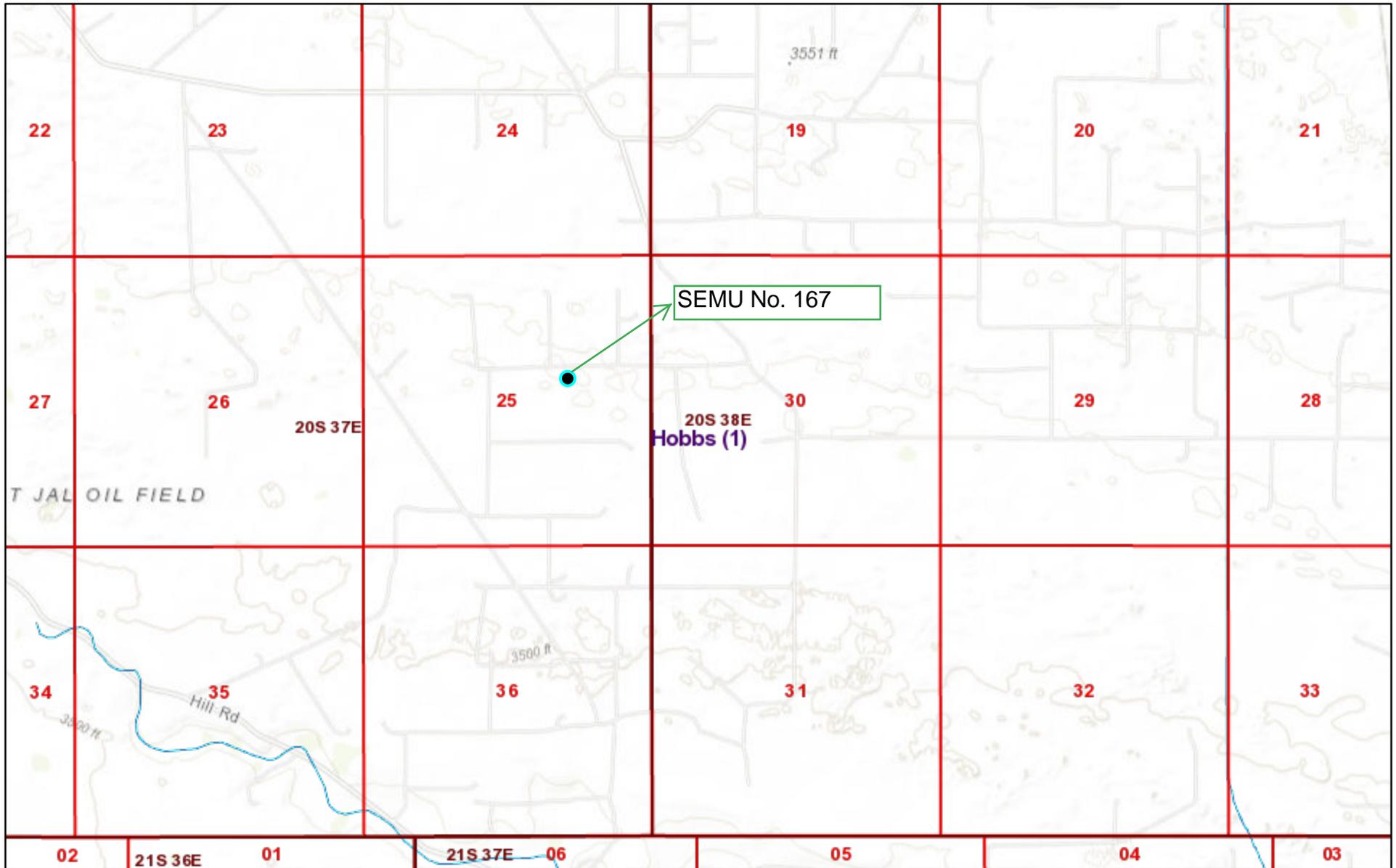
-  SEMU No. 167
-  High
-  Low
-  Medium



Google Earth

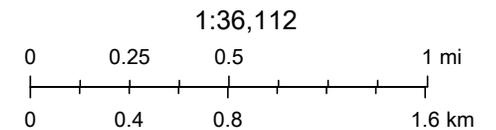
© 2019 Google

Water Bodies



1/27/2020, 10:18:54 AM

- OCD Districts
- PLSS Second Division
- PLJV Probable Playas
- ★ OCD District Offices
- PLSS Townships
- OSE Streams
- PLSS First Division
- OSE Water-bodies



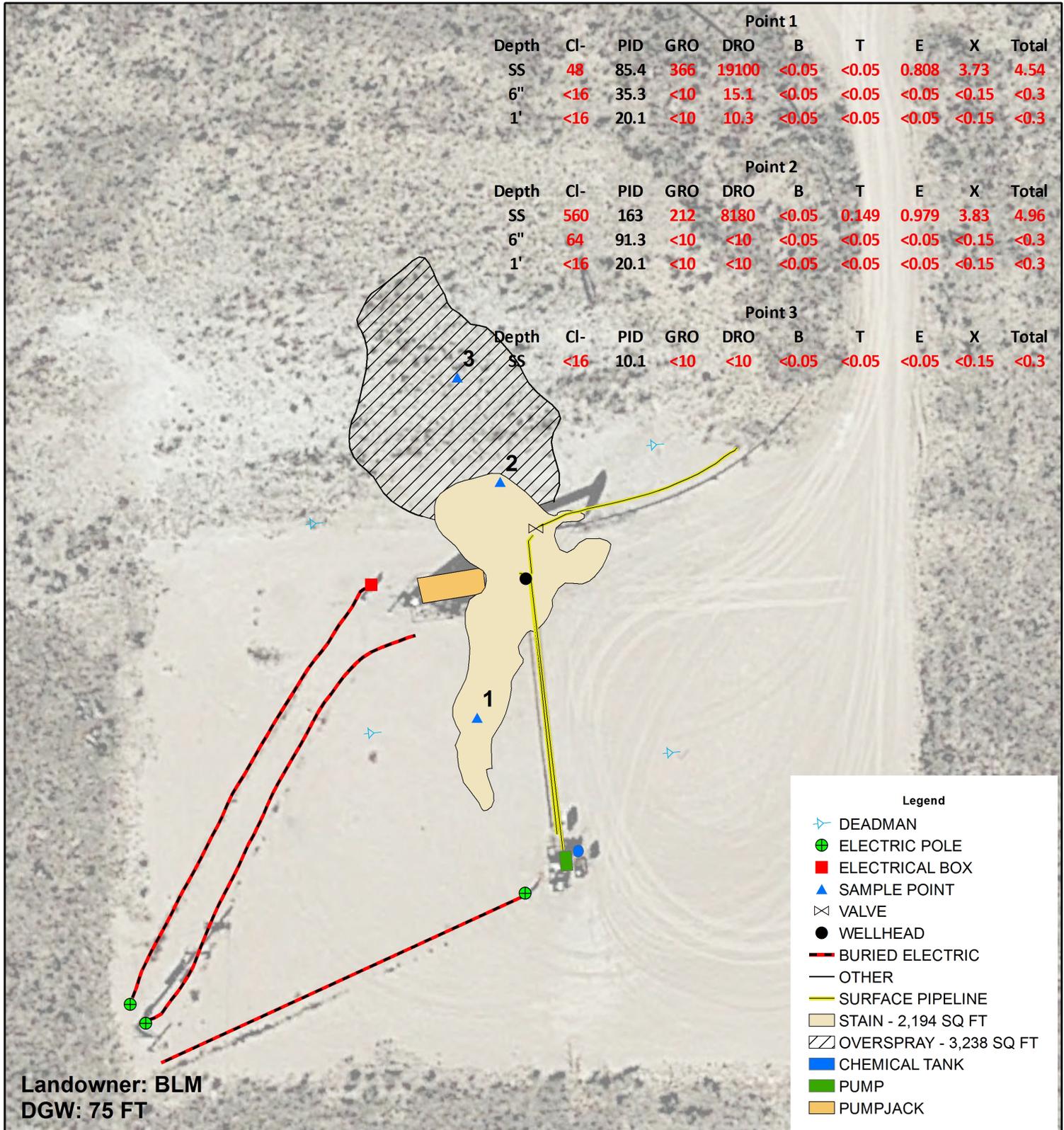
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,

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
Analytical Data Reports (Assessment and Confirmation)

Initial Sampling



Landowner: BLM
DGW: 75 FT

Legend

- DEADMAN
- ELECTRIC POLE
- ELECTRICAL BOX
- SAMPLE POINT
- VALVE
- WELLHEAD
- BURIED ELECTRIC
- OTHER
- SURFACE PIPELINE
- STAIN - 2,194 SQ FT
- OVERSPRAY - 3,238 SQ FT
- CHEMICAL TANK
- PUMP
- PUMPJACK



CONOCOPHILLIPS
SEMU #167
1RP-4288
UL G SECTION 25
T-20-S R-37-E
LEA COUNTY, NM

Underground facilities are spatially projected and need to be field verified.

GPS: 32.545118 -103.201437

0 20 40 Feet

GPS date: 5/24/16 JK
Drawing date: 5/24/16
Drafted by: T. Grieco



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

June 02, 2016

KYLE NORMAN

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: SEMU #167

Enclosed are the results of analyses for samples received by the laboratory on 05/26/16 8:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive 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:	05/26/2016	Sampling Date:	05/24/2016
Reported:	06/02/2016	Sampling Type:	Soil
Project Name:	SEMU #167	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 1 @ SURFACE (H601162-01)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2016	ND	1.81	90.5	2.00	3.57	
Toluene*	<0.050	0.050	06/01/2016	ND	1.88	94.2	2.00	2.83	
Ethylbenzene*	0.808	0.050	06/01/2016	ND	1.74	87.0	2.00	3.93	
Total Xylenes*	3.73	0.150	06/01/2016	ND	5.41	90.2	6.00	3.99	
Total BTEX	4.54	0.300	06/01/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/01/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	366	100	05/31/2016	ND	191	95.7	200	1.97		
DRO >C10-C28	19100	100	05/31/2016	ND	210	105	200	2.11		

Surrogate: 1-Chlorooctane 125 % 35-147

Surrogate: 1-Chlorooctadecane 534 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

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

Received:	05/26/2016	Sampling Date:	05/24/2016
Reported:	06/02/2016	Sampling Type:	Soil
Project Name:	SEMU #167	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 1 @ 6" (H601162-02)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/01/2016	ND	1.81	90.5	2.00	3.57		
Toluene*	<0.050	0.050	06/01/2016	ND	1.88	94.2	2.00	2.83		
Ethylbenzene*	<0.050	0.050	06/01/2016	ND	1.74	87.0	2.00	3.93		
Total Xylenes*	<0.150	0.150	06/01/2016	ND	5.41	90.2	6.00	3.99		
Total BTEX	<0.300	0.300	06/01/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/01/2016	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/31/2016	ND	191	95.7	200	1.97		
DRO >C10-C28	15.1	10.0	05/31/2016	ND	210	105	200	2.11		

Surrogate: 1-Chlorooctane 64.7 % 35-147

Surrogate: 1-Chlorooctadecane 83.3 % 28-171

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Analytical Results For:

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

Received:	05/26/2016	Sampling Date:	05/24/2016
Reported:	06/02/2016	Sampling Type:	Soil
Project Name:	SEMU #167	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 1 @ 1' (H601162-03)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2016	ND	1.81	90.5	2.00	3.57	
Toluene*	<0.050	0.050	06/01/2016	ND	1.88	94.2	2.00	2.83	
Ethylbenzene*	<0.050	0.050	06/01/2016	ND	1.74	87.0	2.00	3.93	
Total Xylenes*	<0.150	0.150	06/01/2016	ND	5.41	90.2	6.00	3.99	
Total BTEX	<0.300	0.300	06/01/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/01/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/31/2016	ND	191	95.7	200	1.97	
DRO >C10-C28	10.3	10.0	05/31/2016	ND	210	105	200	2.11	

Surrogate: 1-Chlorooctane 77.6 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

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Analytical Results For:

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

Received:	05/26/2016	Sampling Date:	05/24/2016
Reported:	06/02/2016	Sampling Type:	Soil
Project Name:	SEMU #167	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 2 @ SURFACE (H601162-04)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2016	ND	1.81	90.5	2.00	3.57	
Toluene*	0.149	0.050	06/01/2016	ND	1.88	94.2	2.00	2.83	
Ethylbenzene*	0.979	0.050	06/01/2016	ND	1.74	87.0	2.00	3.93	
Total Xylenes*	3.83	0.150	06/01/2016	ND	5.41	90.2	6.00	3.99	
Total BTEX	4.96	0.300	06/01/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	06/01/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	212	100	05/31/2016	ND	191	95.7	200	1.97		
DRO >C10-C28	8110	100	05/31/2016	ND	210	105	200	2.11		

Surrogate: 1-Chlorooctane 79.9 % 35-147

Surrogate: 1-Chlorooctadecane 241 % 28-171

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Analytical Results For:

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

Received:	05/26/2016	Sampling Date:	05/24/2016
Reported:	06/02/2016	Sampling Type:	Soil
Project Name:	SEMU #167	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 2 @ 6" (H601162-05)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/01/2016	ND	1.81	90.5	2.00	3.57		
Toluene*	<0.050	0.050	06/01/2016	ND	1.88	94.2	2.00	2.83		
Ethylbenzene*	<0.050	0.050	06/01/2016	ND	1.74	87.0	2.00	3.93		
Total Xylenes*	<0.150	0.150	06/01/2016	ND	5.41	90.2	6.00	3.99		
Total BTEX	<0.300	0.300	06/01/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/01/2016	ND	400	100	400	3.92	QR-03	

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/31/2016	ND	191	95.7	200	1.97		
DRO >C10-C28	<10.0	10.0	05/31/2016	ND	210	105	200	2.11		

Surrogate: 1-Chlorooctane 67.5 % 35-147

Surrogate: 1-Chlorooctadecane 89.1 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/26/2016	Sampling Date:	05/24/2016
Reported:	06/02/2016	Sampling Type:	Soil
Project Name:	SEMU #167	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 2 @ 1' (H601162-06)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/01/2016	ND	1.81	90.5	2.00	3.57		
Toluene*	<0.050	0.050	06/01/2016	ND	1.88	94.2	2.00	2.83		
Ethylbenzene*	<0.050	0.050	06/01/2016	ND	1.74	87.0	2.00	3.93		
Total Xylenes*	<0.150	0.150	06/01/2016	ND	5.41	90.2	6.00	3.99		
Total BTEX	<0.300	0.300	06/01/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/01/2016	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/31/2016	ND	191	95.7	200	1.97		
DRO >C10-C28	<10.0	10.0	05/31/2016	ND	210	105	200	2.11		

Surrogate: 1-Chlorooctane 70.4 % 35-147

Surrogate: 1-Chlorooctadecane 91.4 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/26/2016	Sampling Date:	05/24/2016
Reported:	06/02/2016	Sampling Type:	Soil
Project Name:	SEMU #167	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 3 @ SURFACE (H601162-07)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2016	ND	1.81	90.5	2.00	3.57	
Toluene*	<0.050	0.050	06/01/2016	ND	1.88	94.2	2.00	2.83	
Ethylbenzene*	<0.050	0.050	06/01/2016	ND	1.74	87.0	2.00	3.93	
Total Xylenes*	<0.150	0.150	06/01/2016	ND	5.41	90.2	6.00	3.99	
Total BTEX	<0.300	0.300	06/01/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/01/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/31/2016	ND	191	95.7	200	1.97	
DRO >C10-C28	<10.0	10.0	05/31/2016	ND	210	105	200	2.11	

Surrogate: 1-Chlorooctane 62.1 % 35-147

Surrogate: 1-Chlorooctadecane 83.6 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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Celey D. Keene

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: ConocoPhillips		P.O. #:		BILL TO		ANALYSIS REQUEST														
Project Manager: Kyle Norman		Company: Basin																		
Address: 419 W Cain		Attn:																		
City: Hobbs		Address: 419 W Cain																		
Phone #: 575-393-2967		City: Hobbs																		
Fax #: 575-393-0293		State: NM Zip: 88240																		
Project #: _____		State: NM Zip: 88240																		
Project Name: _____		Phone #: 575-393-2967																		
Project Location: _____		Fax #: 575-393-0293																		
Sampler Name: <i>SEAN H/167</i>		Matrix: _____																		
FOR LAB USE ONLY		PRESERV: _____																		
		SAMPLING																		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS
<i>H02162</i>	<i>PL Surface</i>												<i>5-24-16</i>	<i>9:00</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>		
	<i>PL @ 6"</i>	<i>✓</i>	<i>1</i>										<i>9:15</i>	<i>9:15</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>		
	<i>PL @ 1'</i>	<i>✓</i>	<i>1</i>										<i>9:30</i>	<i>9:30</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>		
	<i>PL @ Surface</i>	<i>✓</i>	<i>1</i>										<i>10:00</i>	<i>10:00</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>		
	<i>PL @ 6"</i>	<i>✓</i>	<i>1</i>										<i>10:15</i>	<i>10:15</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>		
	<i>PL @ 1'</i>	<i>✓</i>	<i>1</i>										<i>10:30</i>	<i>10:30</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>		
	<i>PL @ Surface</i>	<i>✓</i>	<i>1</i>										<i>11:00</i>	<i>11:00</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>		

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Retainquished By: *[Signature]* Date: *3/26/16* Received By: *[Signature]*

Retainquished By: *[Signature]* Date: *3/26/16* Received By: *[Signature]*

Delivered By: (Circle One) *UPS* Sample Condition: Cool Intact Yes No

Checked By: *[Signature]* (Initials) *[Signature]*

Phone Result: Yes No Add'l Phone #: _____

Fax Result: Yes No Add'l Fax #: _____

REMARKS: email results: knorman@basinenv.com; jkamlplain@basinenv;

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

-11:30 corrected

#54



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

November 29, 2017

JUSTIN WRIGHT

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: SEMU 167

Enclosed are the results of analyses for samples received by the laboratory on 11/21/17 12:07.

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.

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 "Mike Snyder".

Mike Snyder For 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:	11/21/2017	Sampling Date:	11/21/2017
Reported:	11/29/2017	Sampling Type:	Soil
Project Name:	SEMU 167	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SP-1 - 2' (H703240-01)

BTEX 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	11/22/2017	ND	1.83	91.4	2.00	1.00	
Toluene*	<0.050	0.050	11/22/2017	ND	1.83	91.4	2.00	0.918	
Ethylbenzene*	<0.050	0.050	11/22/2017	ND	1.76	88.0	2.00	0.117	
Total Xylenes*	<0.150	0.150	11/22/2017	ND	5.63	93.8	6.00	0.147	
Total BTEX	<0.300	0.300	11/22/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/27/2017	ND	432	108	400	3.64	

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	11/22/2017	ND	205	103	200	8.66	
DRO >C10-C28	<10.0	10.0	11/22/2017	ND	216	108	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	11/22/2017	ND					

Surrogate: 1-Chlorooctane 87.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.8 % 34.7-157

Cardinal Laboratories

* = Accredited Analyte

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Mike Snyder For 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:	11/21/2017	Sampling Date:	11/21/2017
Reported:	11/29/2017	Sampling Type:	Soil
Project Name:	SEMU 167	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SP-1 - 8' (H703240-02)

BTEX 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	11/22/2017	ND	1.83	91.4	2.00	1.00	
Toluene*	<0.050	0.050	11/22/2017	ND	1.83	91.4	2.00	0.918	
Ethylbenzene*	<0.050	0.050	11/22/2017	ND	1.76	88.0	2.00	0.117	
Total Xylenes*	<0.150	0.150	11/22/2017	ND	5.63	93.8	6.00	0.147	
Total BTEX	<0.300	0.300	11/22/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/27/2017	ND	432	108	400	3.64	

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	11/22/2017	ND	205	103	200	8.66	
DRO >C10-C28	<10.0	10.0	11/22/2017	ND	216	108	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	11/22/2017	ND					

Surrogate: 1-Chlorooctane 90.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.3 % 34.7-157

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*=Accredited Analyte

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Mike Snyder For 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:	11/21/2017	Sampling Date:	11/21/2017
Reported:	11/29/2017	Sampling Type:	Soil
Project Name:	SEMU 167	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SP-2 - 2' (H703240-03)

BTEX 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	11/22/2017	ND	1.83	91.4	2.00	1.00	
Toluene*	<0.050	0.050	11/22/2017	ND	1.83	91.4	2.00	0.918	
Ethylbenzene*	<0.050	0.050	11/22/2017	ND	1.76	88.0	2.00	0.117	
Total Xylenes*	<0.150	0.150	11/22/2017	ND	5.63	93.8	6.00	0.147	
Total BTEX	<0.300	0.300	11/22/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/27/2017	ND	432	108	400	3.64	

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	11/22/2017	ND	205	103	200	8.66	
DRO >C10-C28	<10.0	10.0	11/22/2017	ND	216	108	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	11/22/2017	ND					

Surrogate: 1-Chlorooctane 91.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.1 % 34.7-157

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Mike Snyder For 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:	11/21/2017	Sampling Date:	11/21/2017
Reported:	11/29/2017	Sampling Type:	Soil
Project Name:	SEMU 167	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SP-2 - 8' (H703240-04)

BTEX 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	11/22/2017	ND	1.83	91.4	2.00	1.00	
Toluene*	<0.050	0.050	11/22/2017	ND	1.83	91.4	2.00	0.918	
Ethylbenzene*	<0.050	0.050	11/22/2017	ND	1.76	88.0	2.00	0.117	
Total Xylenes*	<0.150	0.150	11/22/2017	ND	5.63	93.8	6.00	0.147	
Total BTEX	<0.300	0.300	11/22/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/27/2017	ND	432	108	400	3.64	

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	11/29/2017	ND	205	103	200	8.66	
DRO >C10-C28	<10.0	10.0	11/29/2017	ND	216	108	200	4.24	
EXT DRO >C28-C35	<10.0	10.0	11/29/2017	ND					
EXT DRO >C28-C36	<10.0	10.0	11/29/2017	ND					
Total TPH C6-C28	<10.0	10.0	11/29/2017	ND	421	105	400	6.42	

Surrogate: 1-Chlorooctane 75.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 76.1 % 34.7-157

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Mike Snyder For 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:	11/21/2017	Sampling Date:	11/21/2017
Reported:	11/29/2017	Sampling Type:	Soil
Project Name:	SEMU 167	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SP-3 - 2' (H703240-05)

BTEX 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	11/22/2017	ND	1.83	91.4	2.00	1.00	
Toluene*	<0.050	0.050	11/22/2017	ND	1.83	91.4	2.00	0.918	
Ethylbenzene*	<0.050	0.050	11/22/2017	ND	1.76	88.0	2.00	0.117	
Total Xylenes*	<0.150	0.150	11/22/2017	ND	5.63	93.8	6.00	0.147	
Total BTEX	<0.300	0.300	11/22/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/27/2017	ND	432	108	400	3.64	

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	11/22/2017	ND	205	103	200	8.66	
DRO >C10-C28	<10.0	10.0	11/22/2017	ND	216	108	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	11/22/2017	ND					

Surrogate: 1-Chlorooctane 85.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 82.2 % 34.7-157

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* = Accredited Analyte

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Mike Snyder For 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:	11/21/2017	Sampling Date:	11/21/2017
Reported:	11/29/2017	Sampling Type:	Soil
Project Name:	SEMU 167	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SP-3 - 8' (H703240-06)

BTEX 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	11/22/2017	ND	1.83	91.4	2.00	1.00	
Toluene*	<0.050	0.050	11/22/2017	ND	1.83	91.4	2.00	0.918	
Ethylbenzene*	<0.050	0.050	11/22/2017	ND	1.76	88.0	2.00	0.117	
Total Xylenes*	<0.150	0.150	11/22/2017	ND	5.63	93.8	6.00	0.147	
Total BTEX	<0.300	0.300	11/22/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/27/2017	ND	432	108	400	3.64	

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	11/22/2017	ND	205	103	200	8.66	
DRO >C10-C28	<10.0	10.0	11/22/2017	ND	216	108	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	11/22/2017	ND					

Surrogate: 1-Chlorooctane 88.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 84.3 % 34.7-157

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Handwritten signature of Mike Snyder

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

ATTACHMENT D
Photographic Documentation



TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View southwest across release area on SEMU No. 167 lease pad.	1
	SITE NAME	SEMU No. 167 Release	5/24/2016



TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View north across release area on SEMU no. 167 lease pad.	2
	SITE NAME	SEMU No. 167 Release	5/24/2016



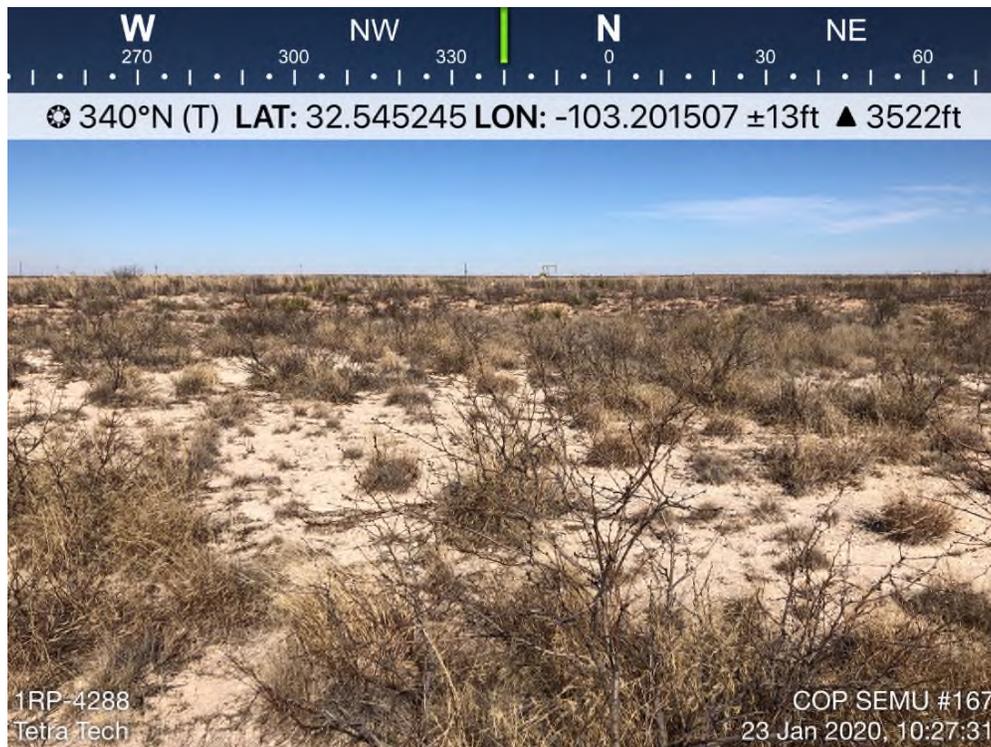
TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View northeast. Former release area SEMU No. 167 lease pad.	3
	SITE NAME	SEMU No. 167 Release	1/23/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View east-northeast of Lease pad on north side of well.	4
	SITE NAME	SEMU No. 167 Release	1/23/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View southeast. Lease pad south of well.	5
	SITE NAME	SEMUM No. 167 Release	1/23/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View north. Pasture on north side of lease pad showing vegetation.	6
	SITE NAME	SEMUM No. 167 Release	1/23/2020

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
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Oil Conservation Division
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CONDITIONS

Action 201867

CONDITIONS

Operator: Maverick Permian LLC 1111 Bagby Street Suite 1600 Houston, TX 77002	OGRID: 331199
	Action Number: 201867
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
bhall	None	3/29/2023