



March 4, 2021

District Supervisor
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

**Re: Release Characterization, Remediation and Closure Report
ConocoPhillips
Warren Unit Blinbry Tubb WF #019 Stuffing Box Release
Unit Letter H, Section 33, Township 20 South, Range 38 East
Lea County, New Mexico
Incident ID: nRM2032853982**

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to assess a release that occurred from the stuffing box at the Warren Unit Blinbry Tubb WF #019 (API # 30-025-07878). The release footprint is located in Public Land Survey System (PLSS) Unit Letter H, Section 33, Township 20 South, Range 38 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.531326°, -103.147106°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Attachment A), the release was discovered on October 20, 2020. As documented on the C-141 form, an unplanned release from the stuffing box resulted in the approximately 18.7 barrels (bbls.) of produced water. The incorrect latitude and longitude for the release location is found on the initial C-141 form.

The release extent was reported as being entirely contained on the developed well pad. The approximate release extent is shown in Figure 3. No materials were recovered after the release. The C-141 report form for the release was submitted to the New Mexico Oil Conservation District (NMOCD) on November 10, 2020. The NMOCD assigned this release Incident ID nRM2032853982. The release area footprint was fenced as a portion of initial response activities. An extension was filed for an additional 90 days after the first 90 days and was approved by the NMOCD. The email correspondence from the NMOCD regarding the extension is found in Appendix F.

SITE CHARACTERIZATION

A site characterization was performed and no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.0029 New Mexico Administrative Code (NMAC). The Site is in an area of low karst potential.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within a ½ mile (800-meter) radius of the Site. There are no water wells within a 1-mile (1600-meter) radius of the Site. The radius search was expanded to 3200-m (2-miles) before water wells were located. There are five (5) water wells within a 3200-meter radius with an average depth to groundwater at 71 feet below ground surface (bgs). The site characterization data is included in Appendix B.

Tetra Tech

901 West Wall St., Suite 100, Midland, TX 79701

Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com

REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used 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 and the release location (on-pad), the remediation RRALs for the Site are as follows:

Constituent	RRAL
Chloride	10,000 mg/kg
TPH	2,500 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

INITIAL RESPONSE AND SITE ASSESSMENT

The approximate release extent is shown in Figure 3. As mentioned above, the release area footprint was fenced as a portion of initial response. In accordance with 19.15.29.8.B.(4) NMAC that states “the responsible party may commence remediation immediately after discovery of a release”, COP elected to begin remediation of the impacted area in November and December 2020. The release footprint in the immediate vicinity of the stuffing box was hand dug/excavated to approximately 6-12 inches bgs to remove the visually impacted soils as shown in Figure 3. Approximately 5 cubic yards of material were transported to the R360 facility in Hobbs, New Mexico.

In order to properly characterize the release footprint and achieve horizontal and vertical delineation of the release extent, Tetra Tech personnel conducted soil sampling following initial response activities. A total of six (6) borings were installed within and outside the release footprint using a hand auger on January 12, 2021. Four (4) borings (AH-1 through AH-4) were installed along the perimeter of the release extent to achieve horizontal delineation. Two (2) borings were installed inside the release area footprint to achieve vertical delineation. One on the north (AH-5) end in the initial response area to gauge the effectiveness of the initial response and one to the south (AH-6) of the release point to a depth of 6 ft bgs. Soil samples collected were field screened for salinity parts per million (ppm) using an ExStik II EC 400 meter.

A total of twenty (20) samples were collected from the seven (7) borings and submitted to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico to be analyzed for chlorides via EPA Method 4500.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix C. Photographic documentation of the release extent is included in Appendix D.

SUMMARY OF SAMPLING RESULTS

Results from the January 2021 soil sampling event are summarized in Table 1. The analytical results associated with the interior boring location AH-6 exceeded the Site reclamation RRAL for chloride (600 mg/kg) in the 0-1' sample interval. There were no other analytical results which exceeded the Site RRALs for TPH, chlorides, or BTEX in the interior boring locations. The analytical results associated with the samples collected from the perimeter borings (AH-1 through AH-4) were below both the Site remediation and reclamation RRALs for all analyzed constituents. After review of the analytical results from the sampling event, both horizontal and vertical delineation was achieved during the January 2021 soil assessment activities.

REMIEDIATION ACTIVITIES

The analytical results demonstrated that the initial response in the vicinity of the stuffing box was effective and sufficient for remediation and reclamation. Based on the analytical results and the initial C-141, in an abundance of caution, COP elected to remove the remaining impacted material within the remainder of the release footprint as shown in Figure 4. Visually impacted soils were initially excavated based on the reported release footprint and the assessment data. Excavation continued down to an approximate depth of 18" bgs, until a representative sample from the walls and bottom of the excavation had a field screening value inferred as lower than the RRALs for the site.

The soil in the vicinity of boring AH-6 was excavated to 18" bgs based on the assessment data. The remainder of the footprint was excavated to 18" bgs. Soil in the vicinity of the stuffing box needed no additional excavation post-initial response. Impacted soils were excavated using heavy equipment (backhoes and track hoes) until a representative sample from the walls and bottom of the excavation was below the RRALs. Approximately 30 cubic yards of excavated material were transported to the R360 facility in Hobbs, New Mexico. Copies of the waste manifests are included in Appendix E.

CONFIRMATION SAMPLING RESULTS

In accordance with 19.15.29.12(D)(1)(b) NMAC, ConocoPhillips conducted confirmation sampling of the remediated area for verification of remedial activities where each sidewall and floor sample was representative of approximately 200 square feet. A total of four (4) floor sample locations and ten (10) sidewall sample locations were used during the remedial activities in January and February 2021. Confirmation samples were placed into laboratory-provided sample containers, transferred under chain-of-custody, and analyzed for TPH, BTEX, and chloride within appropriate holding times by Cardinal. As this is an active, developed well pad, the confirmation samples were field screened with a PID for volatile organics and with an ExStik EC400 for salinity. For the health and safety of onsite workers, after confirmation sampling, the open excavation was backfilled with clean material to surface grade.

The total remediated area encompassed a surface area of approximately 600 square feet. Each confirmation sample laboratory analytical result was directly compared to the proposed RRALs to demonstrate compliance. All final confirmation soil samples (floor and sidewall) were below the respective remediation RRALs for BTEX, TPH and chlorides. Results from the February 2021 confirmation sampling event are summarized in Table 2.

As mentioned, the open excavation was backfilled post-confirmation sample collection and field screening. Results below the applicable remediation RRALs were received. Although analytical results associated with the Floor-2 sample slightly exceeded the reclamation RRAL used to complete restoration, the remaining contamination is on a developed pad, fully delineated, and does not pose an imminent risk to human health, the environment, or groundwater. The impacted surface area occurring on the developed pad at the site was remediated to meet the standards of Table I of 19.15.29.12 NMAC. On-site reclamation and restoration will occur once the well is plugged and operations have ceased at this active well pad.

CONCLUSION

ConocoPhillips has completed remediation at the release site. This final closure report has been submitted within 180 days of discovery of the release. This final closure report details the release characterization and remediation activities and the results of the confirmation sampling. As noted, on-site reclamation and restoration will occur once the well is plugged and operations have ceased at this active well pad.

Release Characterization, Remediation and Closure Report
March 4, 2021

ConocoPhillips

If you have any questions concerning the soil assessment, the remediation work, or confirmation sampling for the Site, please call me at (512) 338-2861.

Sincerely,

Tetra Tech, Inc.

A handwritten signature in blue ink, appearing to read 'CLL', is positioned below the company name.

Christian M. Llull, P.G.
Project Manager

cc:

Ms. Kelsy Waggaman, GPBU – ConocoPhillips

Mr. Luke Alejandro, GPBU – ConocoPhillips

LIST OF ATTACHMENTS

Figures:

- Figure 1 – Overview Map
- Figure 2 – Site Location/Topographic Map
- Figure 3 – Approximate Release Extent
- Figure 4 – Remedial Activities and Confirmation Sampling Locations

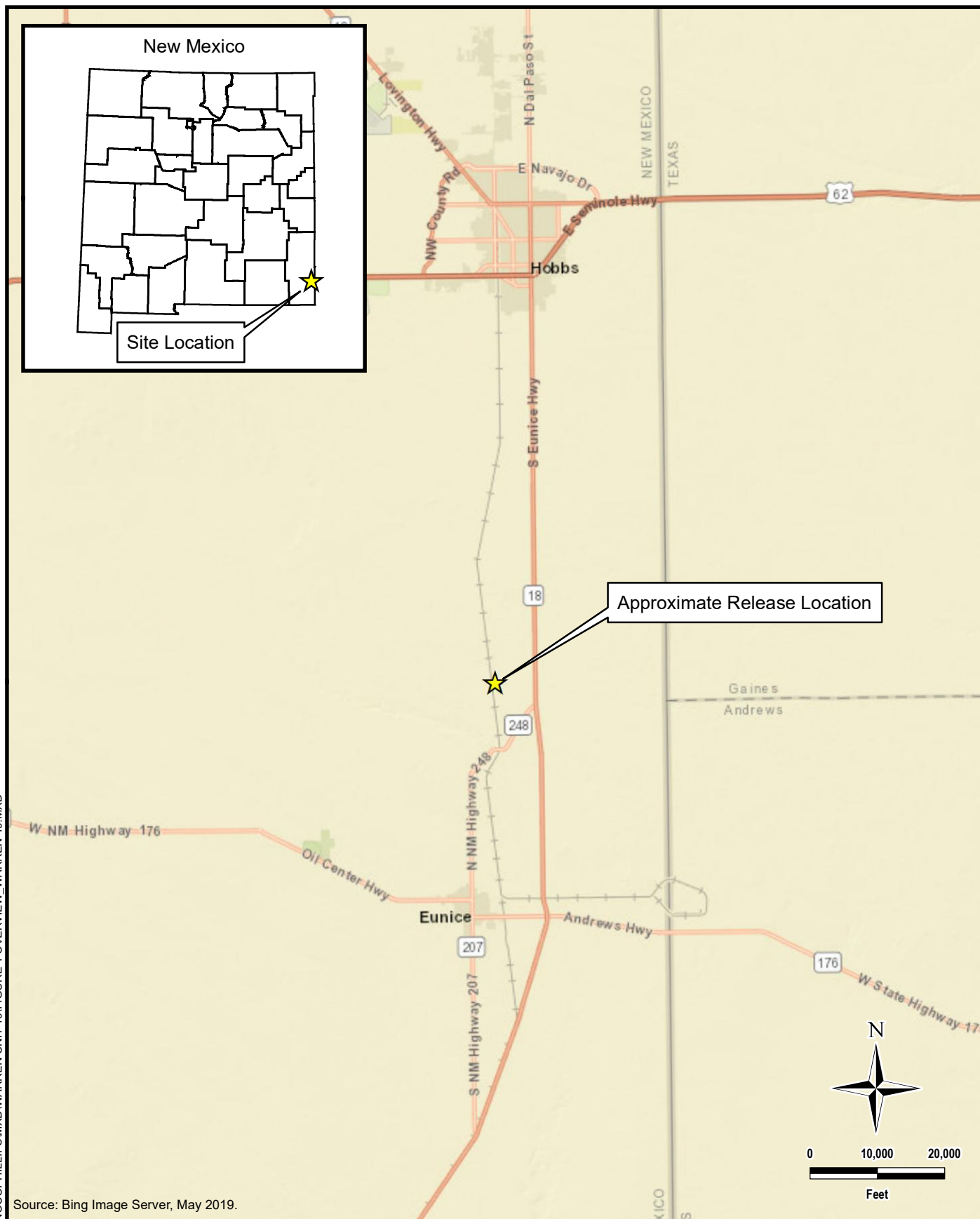
Tables:

- Table 1 – Summary of Analytical Results – Initial Soil Assessment
- Table 2 – Summary of Analytical Results – Confirmation Sampling

Appendices:


- Appendix A – C-141 Forms
- Appendix B – Site Characterization Data
- Appendix C – Laboratory Analytical Data
- Appendix D – Photographic Documentation
- Appendix E – Waste Manifests
- Appendix F – NMOCD Extension

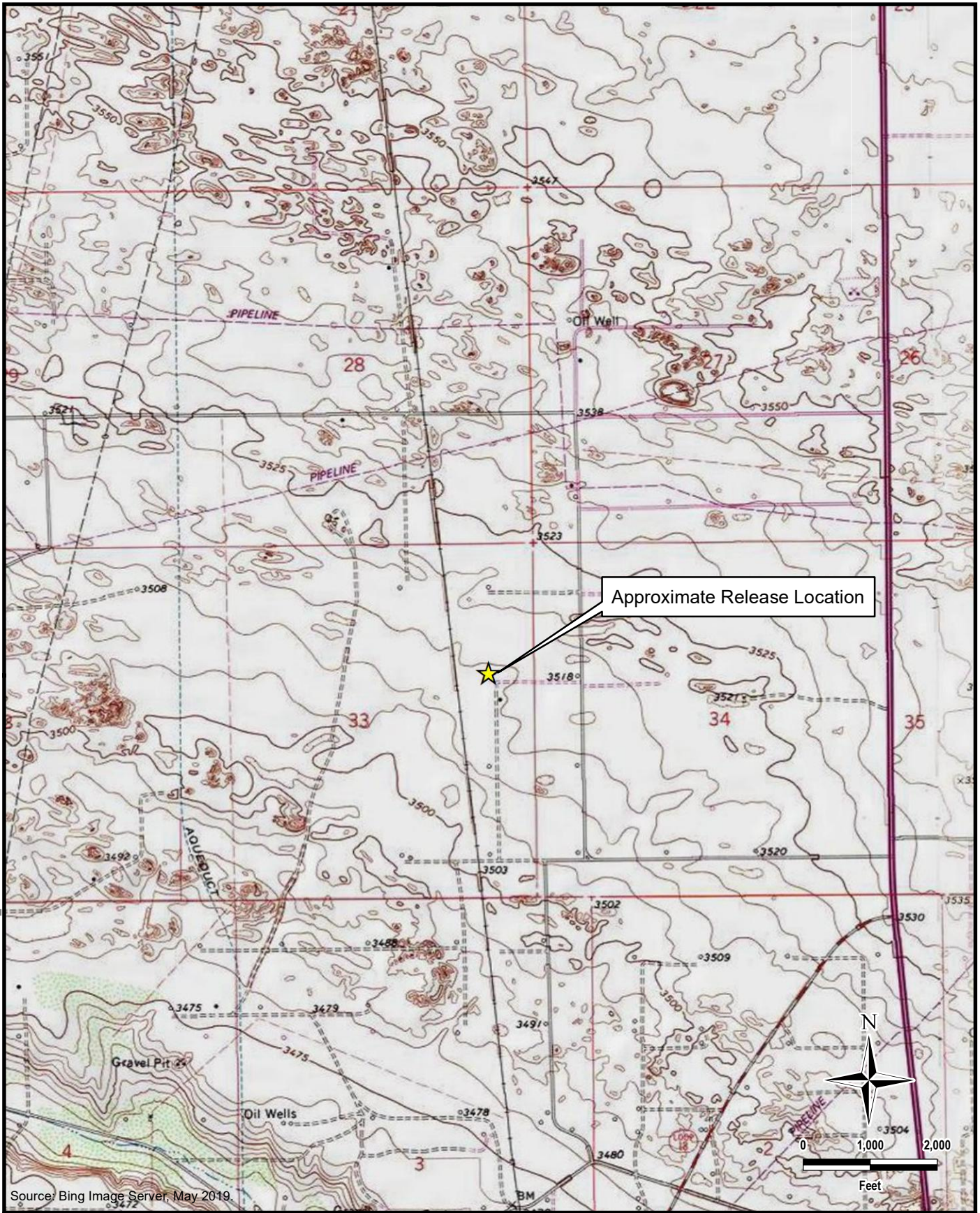
FIGURES



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\WARREN UNIT 19\FIGURE 1 OVERVIEW_WARREN_19.MXD

Source: Bing Image Server, May 2019.

 <p>www.tetrattech.com 901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559 Fax: (432) 682-3946</p>	<p>CONOCOPHILLIPS</p> <p>NRM2032853982 (32.531326°, -103.147106°) LEA COUNTY, NEW MEXICO</p>	<p>PROJECT NO.: 212C-MD-02377</p> <p>DATE: FEBRUARY 23, 2021</p> <p>DESIGNED BY: AAM</p>
	<p>WARREN UNIT BLINEBRY TUBB WF #019 STUFFING BOX RELEASE OVERVIEW MAP</p>	
	<p>Figure No. 1</p>	



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\WARREN UNIT 19\FIGURE 2 TOPO_WARREN 19.MXD

Source: Bing Image Server, May 2019.



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CONOCOPHILLIPS

NRM2032853982
 (32.531326°, -103.147106°)
 LEA COUNTY, NEW MEXICO

**WARREN UNIT BLINEBRY TUBB WF #019 STUFFING BOX RELEASE
 TOPOGRAPHIC MAP**

PROJECT NO.: 212C-MD-02377

DATE: FEBRUARY 23, 2021

DESIGNED BY: AAM

Figure No.

2



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\WARREN UNIT 19\FIGURE 3 RELEASE ASSESSMENT_WARREN 19.MXD

Legend

- Boring Location - Hand Auger
- Initial Response - 12" BGS
- Approximate Release Extent

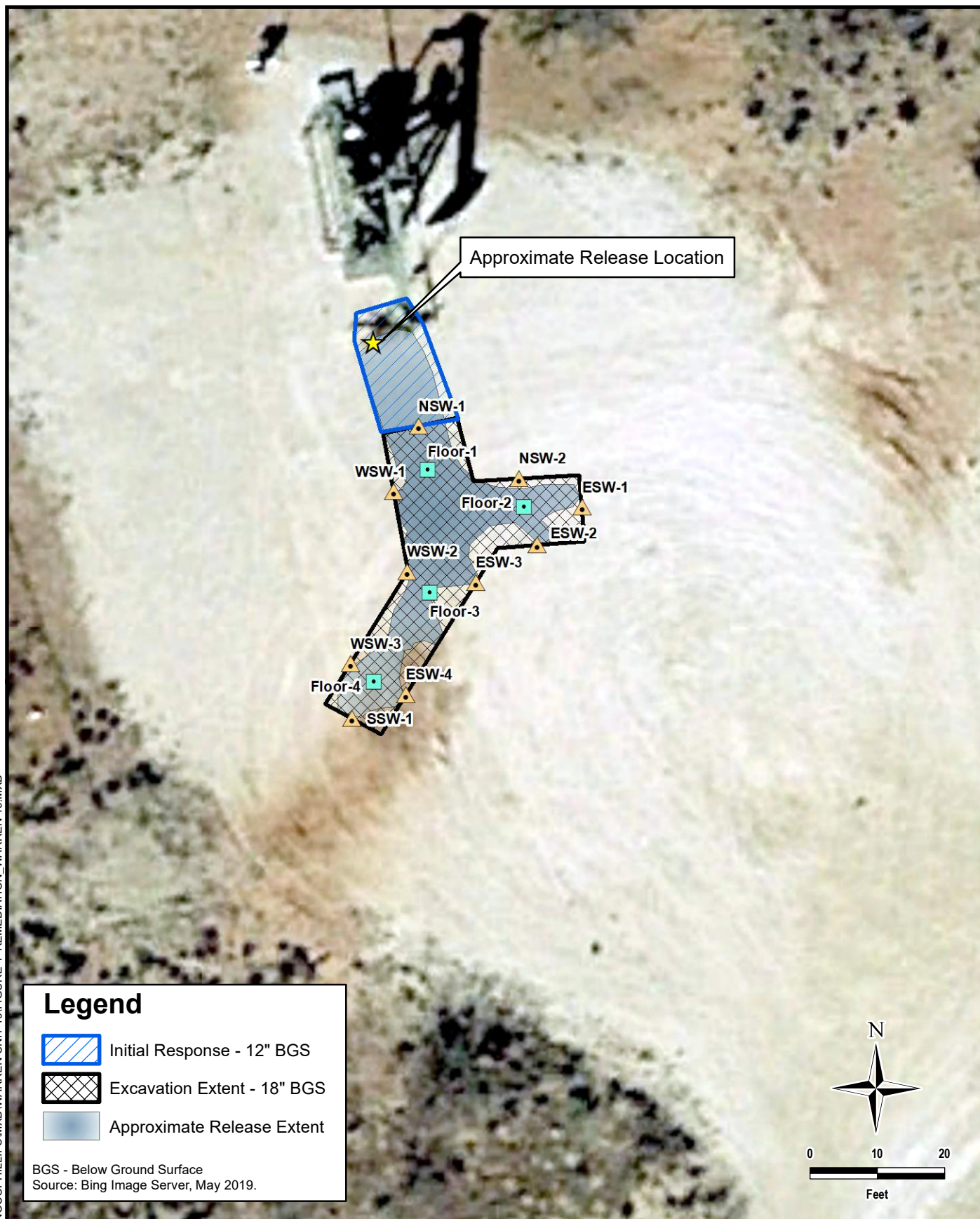
BGS - Below Ground Surface
Source: Bing Image Server, May 2019.

N

0 15 30




Feet

<p>TETRA TECH</p> <p>www.tetratech.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>NRM2032853982 (32.531326°, -103.147106°) LEA COUNTY, NEW MEXICO</p>	<p>PROJECT NO.: 212C-MD-02377</p> <p>DATE: FEBRUARY 23, 2021</p> <p>DESIGNED BY: AAM</p>
	<p>WARREN UNIT BLINEBRY TUBB WF #019 STUFFING BOX RELEASE APPROXIMATE RELEASE EXTENT</p>	<p>Figure No. 3</p>

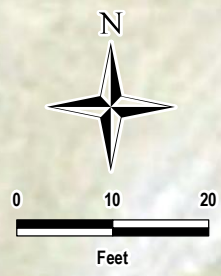



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\WARREN UNIT 19\FIGURE 4 REMEDIATION_WARREN 19.MXD

Legend

-  Initial Response - 12" BGS
-  Excavation Extent - 18" BGS
-  Approximate Release Extent

BGS - Below Ground Surface
Source: Bing Image Server, May 2019.



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	<p>WARREN UNIT BLINEBRY TUBB WF #019 STUFFING BOX RELEASE REMEDIAL ACTIVITIES AND CONFIRMATION SAMPLING LOCATIONS</p>	<p>DATE: FEBRUARY 23, 2021</p> <p>DESIGNED BY: AAM</p>
		<p>Figure No. 4</p>

TABLES

TABLE 1
 SUMMARY OF ANALYTICAL RESULTS
 INITIAL SOIL ASSESSMENT
 CONOCOPHILLIPS
 WARREN UNIT BLINEBRY TUBB WF #019 STUFFING BOX RELEASE
 nRM2032853982
 LEA COUNTY, NM

Sample ID	Sample Date	Sampled Depth	Chloride ¹		BTEX ²										TPH ³						
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO ⁴		DRO		ORO		Total TPH
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
AH-1	1/12/2021	(0'-1')	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
	1/12/2021	(2'-3')	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
AH-2	1/12/2021	(0'-1')	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
	1/12/2021	(2'-3')	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
AH-3	1/12/2021	(0'-1')	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
	1/12/2021	(2'-3')	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
AH-4	1/12/2021	(0'-1')	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
	1/12/2021	(2'-3')	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
AH-5	1/12/2021	(0'-1')	432		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
	1/12/2021	(1'-2')	160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
	1/12/2021	(2'-3')	112		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		22.8		23.8		46.6
	1/12/2021	(3'-4')	208		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
	1/12/2021	(4'-5')	288		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
	1/12/2021	(5'-6')	224		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
AH-6	1/12/2021	(0'-1')	784		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
	1/12/2021	(1'-2')	96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
	1/12/2021	(2'-3')	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
	1/12/2021	(3'-4')	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
	1/12/2021	(4'-5')	96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
	1/12/2021	(5'-6')	192.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0

NOTES:

- ft. Feet
- bgs Below ground surface
- ppm Parts per million
- mg/kg Milligrams per kilogram
- NS Not sampled
- TPH Total Petroleum Hydrocarbons
- GRO Gasoline range organics
- DRO Diesel range organics
- ORO Oil range organics
- 1 Method SM4500C1-B
- 2 EPA Method 8021M
- 3 EPA Method 8015M
- 4 EPA Method 8015D/GRO

Bold and italicized values indicate exceedance of proposed RRALs based on the region's depth to groundwater and the sampled depth.

QUALIFIERS:

TABLE 2
 SUMMARY OF ANALYTICAL RESULTS
 CONFIRMATION SAMPLING
 CONOCOPHILLIPS
 WARREN UNIT BLINEBRY TUBB WF #019 STUFFING BOX RELEASE
 nRM2032853982
 LEA COUNTY, NM

Sample ID	Sample Date	Sampled Depth	Chloride ¹		BTEX ²								TPH ³								
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO ⁴		DRO		ORO		Total TPH
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
NSW-1	2/1/2021	-	96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		21.6		24.4		46.0
NSW-2	2/1/2021	-	144		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
SSW-1	2/1/2021	-	112		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
ESW-1	2/1/2021	-	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
ESW-2	2/1/2021	-	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
ESW-3	2/1/2021	-	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
ESW-4	2/1/2021	-	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
WSW-1	2/1/2021	-	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
WSW-2	2/1/2021	-	96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
WSW-3	2/1/2021	-	96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
Floor-1	2/1/2021	18"	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
Floor-2	2/1/2021	18"	96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		128		156		284
Floor-3	2/1/2021	18"	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0
Floor-4	2/1/2021	18"	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 10.0

NOTES:

Bold and italicized values indicate exceedance of proposed RRALS based on the Site characterization, on-pad location and the sampled depths bgs.

- ft. Feet
- bgs Below ground surface
- ppm Parts per million
- mg/kg Milligrams per kilogram
- NS Not sampled
- TPH Total Petroleum Hydrocarbons
- GRO Gasoline range organics
- DRO Diesel range organics
- ORO Oil range organics
- 1 Method SM4500C1-B
- 2 EPA Method 8021M
- 3 EPA Method 8015M
- 4 EPA Method 8015D/GRO

QUALIFIERS:

APPENDIX 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 Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NRM2032853982
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	ConocoPhillips Company	OGRID	217817
Contact Name	Kelsy Waggaman	Contact Telephone	505-577-9071
Contact email	Kelsy.Waggaman@ConocoPhillips.com	Incident # (assigned by OCD)	
Contact mailing address	29 Vacuum Complex Lane, Lovington, NM 88260		

Location of Release Source

Latitude 32.531326° Longitude -103.147106°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	WARREN UNIT BLINEBRY TUBB WF #019	Site Type	WELL
Date Release Discovered	10/20/20	API# (if applicable)	3002507878

Unit Letter	Section	Township	Range	County
H	33	20S	38E	Lea

Surface Owner: State Federal Tribal Private (Name: McCasland LTD Partnership Lea I)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	0.2	Volume Recovered (bbls)	0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls)	18.7	Volume Recovered (bbls)	0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
<input type="checkbox"/> Condensate	Volume Released (bbls)		Volume Recovered (bbls)	
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)	
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)		Volume/Weight Recovered (provide units)	

Cause of Release

STUFFING BOX

State of New Mexico
 Oil Conservation Division

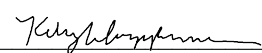
Page 2

Incident ID	NRM2032853982
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
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.
Printed Name: <u>Kelsy Waggaman</u> Title: <u>Environmental Coordinator</u> Signature: <u></u> Date: <u>11/10/20</u> email: <u>Kelsy.Waggaman@ConocoPhillips.com</u> Telephone: <u>505-577-9071</u>
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>11/23/2020</u>

L48 Spill Volume Estimate Form									
Facility Name & Number:		Warren Unit #19							
Asset Area:		SENM							
Release Discovery Date & Time:		10/20/2020 9:45am							
Release Type:		Oil Mixture							
Provide any known details about the event:		Stuffing Box Leak.							
Spill Calculation - Subsurface Spill - Rectangle									
Was the release on pad or off-pad?		See reference table below							
It rained at least a half inch in the last 24 hours?		See reference table below							
Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)	
50.0	13.0	12.00	10.50%	115.700	12.149		0.000	12.149	
20.0	18.0	8.00	10.50%	42.720	4.486		0.000	4.486	
15.0	10.0	6.00	10.50%	13.350	1.402		0.000	1.402	
				0.000	0.000		0.000	0.000	
				0.000	0.000		0.000	0.000	
				0.000	0.000		0.000	0.000	
				0.000	0.000		0.000	0.000	
				0.000	0.000		0.000	0.000	
				0.000	0.000		0.000	0.000	
				0.000	0.000		0.000	0.000	
Total Volume Release:					18.036		0.000	18.036	

Incident ID	nRM2032853982
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	71 _____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

<p>Characterization Report Checklist: <i>Each of the following items must be included in the report.</i></p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. <input checked="" type="checkbox"/> Field data <input checked="" type="checkbox"/> Data table of soil contaminant concentration data <input checked="" type="checkbox"/> Depth to water determination <input checked="" type="checkbox"/> Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release <input type="checkbox"/> Boring or excavation logs <input checked="" type="checkbox"/> Photographs including date and GIS information <input checked="" type="checkbox"/> Topographic/Aerial maps <input checked="" type="checkbox"/> Laboratory data including chain of custody
--

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141

State of New Mexico

Page 4

Oil Conservation Division

Incident ID	nRM2032853982
District RP	
Facility ID	
Application ID	

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.

Printed Name: Luke Alejandro Title: SENM Surface Projects Supervisor
 Signature: [Handwritten Signature] Date: 3-4-21
 email: luke.w.alexandru@conocoPhillips.com Telephone: 836-776-9260

OCD Only

Received by: _____ Date: _____

Form C-141

State of New Mexico

Page 5

Oil Conservation Division

Incident ID	nRM2032853982
District RP	
Facility ID	
Application ID	

Remediation Plan

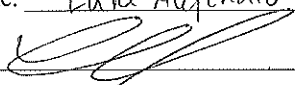
Remediation Plan Checklist: Each of the following items must be included in the plan.

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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.

Printed Name: Luke Alejandro Title: SENM SFC projects supervisor
 Signature:  Date: 3-4-21
 email: luke.w.alexandra@conservephillips.com Telephone: 830-776-9260

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

Form C-141

State of New Mexico

Page 6

Oil Conservation Division

Incident ID	nRM2032853982
District RP	
Facility ID	
Application ID	

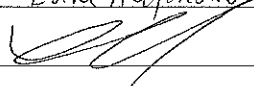
Closure

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: Luke Alejandro Title: SFC SENM projects supervisor
 Signature:  Date: 3-4-21
 email: luke.w.alexandro@conocoPhillips.com Telephone: 836-776-9260

OCD Only

Received by: Chad Hensley Date: 03/22/2022

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: 03/22/2022

Printed Name: Chad Hensley Title: Environmental Specialist Advanced

APPENDIX B

Site Characterization Data



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 674015.959

Northing (Y): 3600835.884

Radius: 800

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.



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	Distance	Depth Well	Depth Water	Water Column
L 13546 POD1	L	LE		4	4	3	34	20S	38E	675011	3600037	1275	88		

Average Depth to Water: --
Minimum Depth: --
Maximum Depth: --

Record Count: 1

UTM NAD83 Radius Search (in meters):

Easting (X): 674015.959

Northing (Y): 3600835.884

Radius: 1600

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.



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	Distance	Depth Well	Depth Water	Water Column
L 13546 POD1	L	LE		4	4	3	34	20S	38E	675011	3600037	1283	88		

Average Depth to Water: --
Minimum Depth: --
Maximum Depth: --

Record Count: 1

UTM NAD83 Radius Search (in meters):

Easting (X): 674012.709

Northing (Y): 3600844.479

Radius: 2400

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.



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	Distance	Depth Well	Depth Water	Water Column
L 13546 POD1	L	LE		4	4	3	34	20S	38E	675011	3600037	1283	88		
L 07980	L	LE		4	3	26	20S	38E	676412	3601687*	3601687*	2542	130	65	65
CP 01741 POD1	CP	LE		1	3	4	03	21S	37E	673895	3597759	3087	45		
CP 00552	CP	LE		2	4	04	21S	37E	672700	3598022*	3598022*	3112	90	75	15
CP 00553	CP	LE		2	4	04	21S	37E	672700	3598022*	3598022*	3112	90	75	15

Average Depth to Water: **71 feet**
 Minimum Depth: **65 feet**
 Maximum Depth: **75 feet**

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 674012.709

Northing (Y): 3600844.479

Radius: 3200

*UTM location was derived from PLSS - see Help

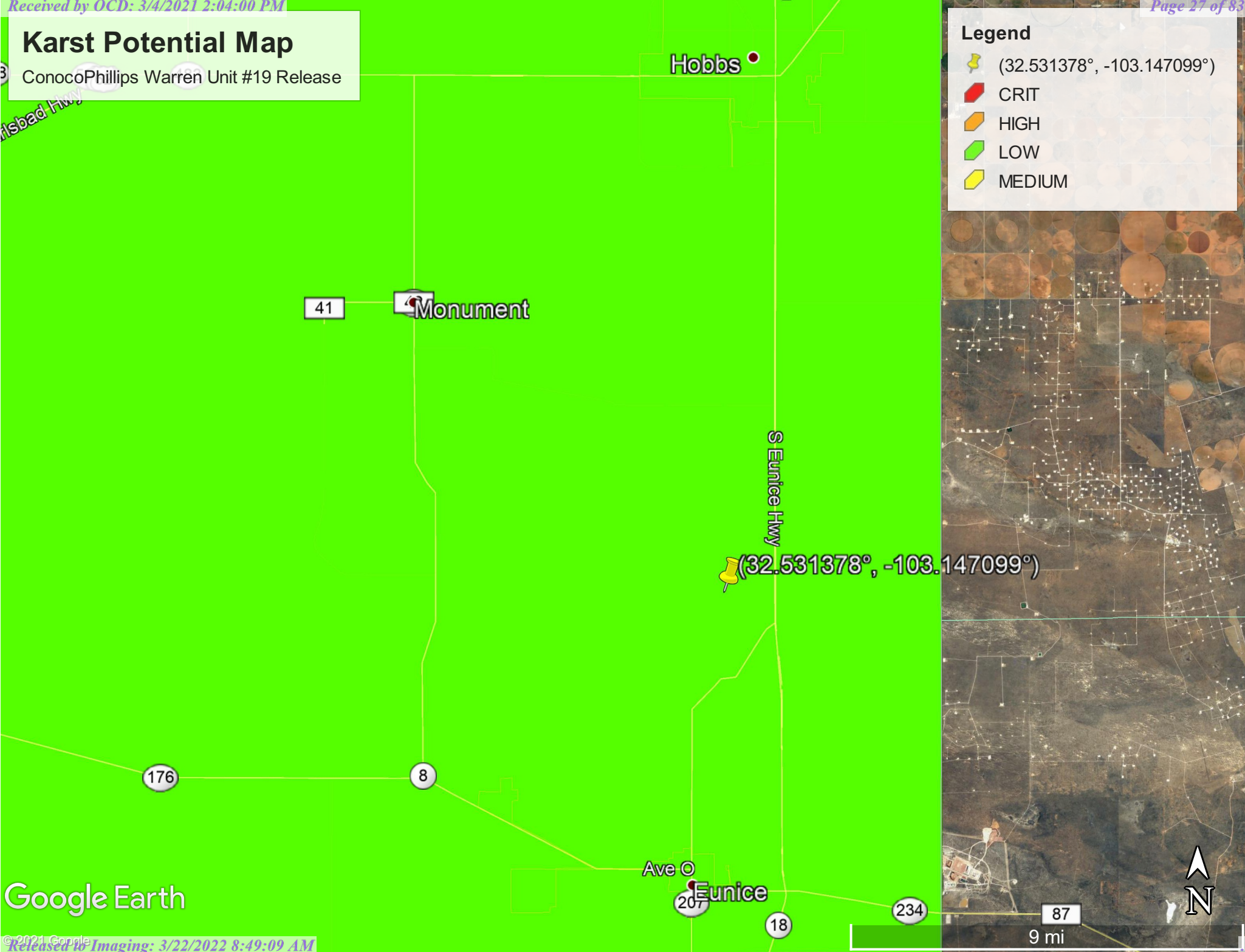
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Karst Potential Map

ConocoPhillips Warren Unit #19 Release

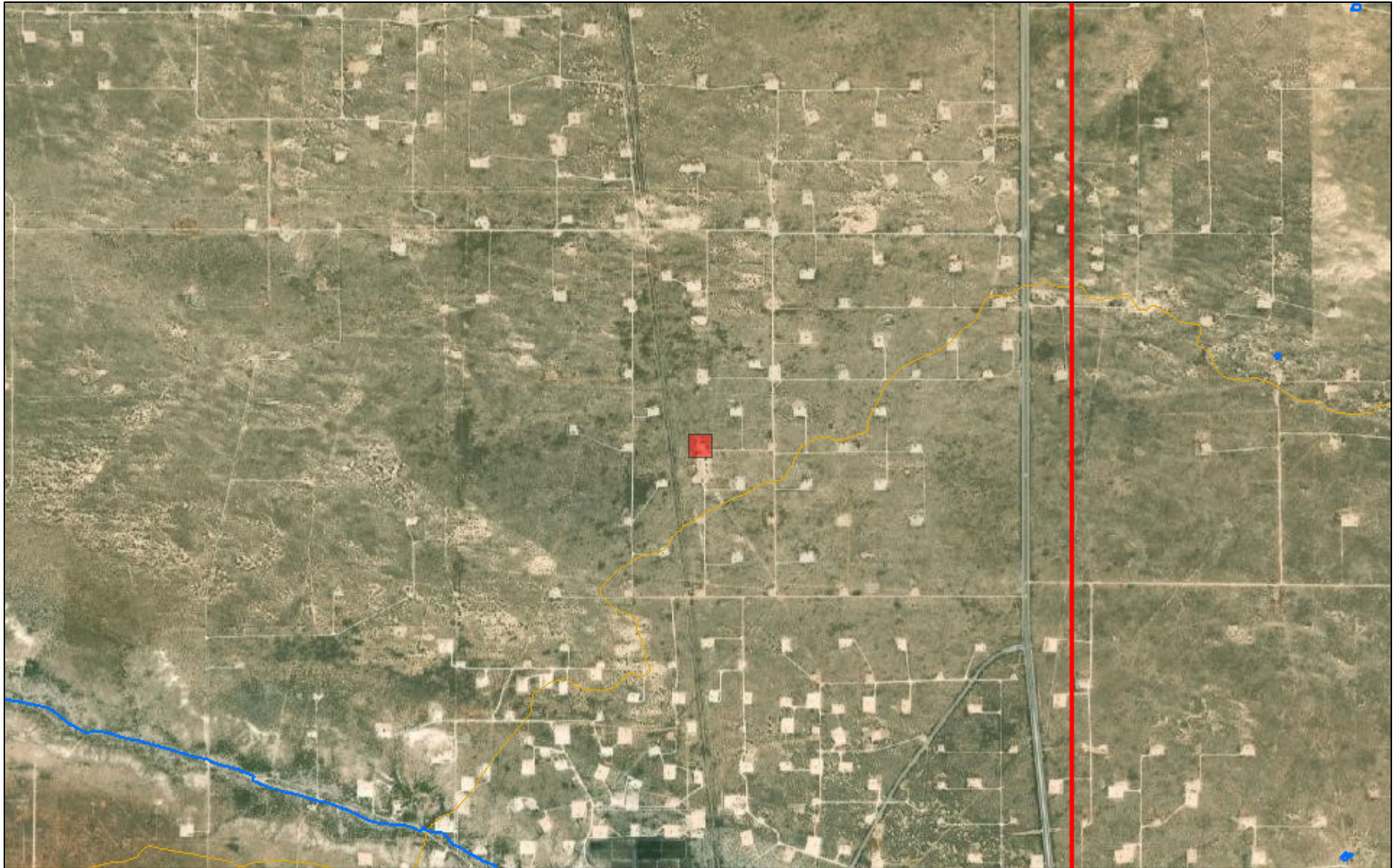
Legend

-  (32.531378°, -103.147099°)
-  CRIT
-  HIGH
-  LOW
-  MEDIUM

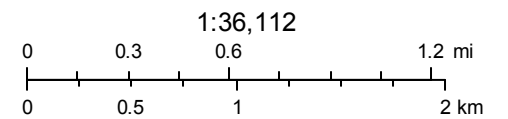


Google Earth

New Mexico NFHL Data



February 11, 2021



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

APPENDIX C

Laboratory Analytical Data



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

January 14, 2021

JOE TYLER

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: WARREN UNIT #19 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/12/21 14:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/12/2021	Sampling Date:	01/12/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: AH - 1 (0-1') (H210066-01)

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	01/12/2021	ND	2.08	104	2.00	3.03	
Toluene*	<0.050	0.050	01/12/2021	ND	2.06	103	2.00	3.53	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.00	100	2.00	4.24	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	5.87	97.8	6.00	3.62	
Total BTEX	<0.300	0.300	01/12/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/13/2021	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	01/13/2021	ND	231	116	200	4.52	
DRO >C10-C28*	<10.0	10.0	01/13/2021	ND	221	110	200	2.99	
EXT DRO >C28-C36	<10.0	10.0	01/13/2021	ND					

Surrogate: 1-Chlorooctane 85.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.2 % 42.2-156

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



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

Analytical Results For:

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

Received:	01/12/2021	Sampling Date:	01/12/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: AH - 1 (2'-3') (H210066-02)

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	01/12/2021	ND	2.08	104	2.00	3.03	
Toluene*	<0.050	0.050	01/12/2021	ND	2.06	103	2.00	3.53	
Ethylbenzene*	<0.050	0.050	01/12/2021	ND	2.00	100	2.00	4.24	
Total Xylenes*	<0.150	0.150	01/12/2021	ND	5.87	97.8	6.00	3.62	
Total BTEX	<0.300	0.300	01/12/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/13/2021	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	01/13/2021	ND	231	116	200	4.52	
DRO >C10-C28*	<10.0	10.0	01/13/2021	ND	221	110	200	2.99	
EXT DRO >C28-C36	<10.0	10.0	01/13/2021	ND					

Surrogate: 1-Chlorooctane 92.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.2 % 42.2-156

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



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

Analytical Results For:

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

Received:	01/12/2021	Sampling Date:	01/12/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: AH - 2 (0-1') (H210066-03)

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	01/13/2021	ND	2.01	101	2.00	6.08		
Toluene*	<0.050	0.050	01/13/2021	ND	1.99	99.7	2.00	6.23		
Ethylbenzene*	<0.050	0.050	01/13/2021	ND	1.93	96.4	2.00	6.23		
Total Xylenes*	<0.150	0.150	01/13/2021	ND	5.65	94.1	6.00	5.91		
Total BTEX	<0.300	0.300	01/13/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/13/2021	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	01/13/2021	ND	231	116	200	4.52		
DRO >C10-C28*	<10.0	10.0	01/13/2021	ND	221	110	200	2.99		
EXT DRO >C28-C36	<10.0	10.0	01/13/2021	ND						

Surrogate: 1-Chlorooctane 86.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.8 % 42.2-156

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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
 JOE TYLER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	01/12/2021	Sampling Date:	01/12/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: AH - 2 (2'-3') (H210066-04)

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	01/13/2021	ND	2.01	101	2.00	6.08	
Toluene*	<0.050	0.050	01/13/2021	ND	1.99	99.7	2.00	6.23	
Ethylbenzene*	<0.050	0.050	01/13/2021	ND	1.93	96.4	2.00	6.23	
Total Xylenes*	<0.150	0.150	01/13/2021	ND	5.65	94.1	6.00	5.91	
Total BTEX	<0.300	0.300	01/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/13/2021	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	01/13/2021	ND	231	116	200	4.52	
DRO >C10-C28*	<10.0	10.0	01/13/2021	ND	221	110	200	2.99	
EXT DRO >C28-C36	<10.0	10.0	01/13/2021	ND					

Surrogate: 1-Chlorooctane 89.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.1 % 42.2-156

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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
 JOE TYLER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	01/12/2021	Sampling Date:	01/12/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: AH - 3 (0-1') (H210066-05)

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	01/13/2021	ND	2.01	101	2.00	6.08		
Toluene*	<0.050	0.050	01/13/2021	ND	1.99	99.7	2.00	6.23		
Ethylbenzene*	<0.050	0.050	01/13/2021	ND	1.93	96.4	2.00	6.23		
Total Xylenes*	<0.150	0.150	01/13/2021	ND	5.65	94.1	6.00	5.91		
Total BTEX	<0.300	0.300	01/13/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/13/2021	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	01/13/2021	ND	231	116	200	4.52		
DRO >C10-C28*	<10.0	10.0	01/13/2021	ND	221	110	200	2.99		
EXT DRO >C28-C36	<10.0	10.0	01/13/2021	ND						

Surrogate: 1-Chlorooctane 84.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.4 % 42.2-156

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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
 JOE TYLER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	01/12/2021	Sampling Date:	01/12/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: AH - 3 (2'-3') (H210066-06)

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	01/13/2021	ND	2.01	101	2.00	6.08	
Toluene*	<0.050	0.050	01/13/2021	ND	1.99	99.7	2.00	6.23	
Ethylbenzene*	<0.050	0.050	01/13/2021	ND	1.93	96.4	2.00	6.23	
Total Xylenes*	<0.150	0.150	01/13/2021	ND	5.65	94.1	6.00	5.91	
Total BTEX	<0.300	0.300	01/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/13/2021	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	01/13/2021	ND	231	116	200	4.52	
DRO >C10-C28*	<10.0	10.0	01/13/2021	ND	221	110	200	2.99	
EXT DRO >C28-C36	<10.0	10.0	01/13/2021	ND					

Surrogate: 1-Chlorooctane 85.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.7 % 42.2-156

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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
 JOE TYLER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	01/12/2021	Sampling Date:	01/12/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: AH - 4 (0-1') (H210066-07)

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	01/13/2021	ND	2.01	101	2.00	6.08		
Toluene*	<0.050	0.050	01/13/2021	ND	1.99	99.7	2.00	6.23		
Ethylbenzene*	<0.050	0.050	01/13/2021	ND	1.93	96.4	2.00	6.23		
Total Xylenes*	<0.150	0.150	01/13/2021	ND	5.65	94.1	6.00	5.91		
Total BTEX	<0.300	0.300	01/13/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/13/2021	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	01/13/2021	ND	231	116	200	4.52		
DRO >C10-C28*	<10.0	10.0	01/13/2021	ND	221	110	200	2.99		
EXT DRO >C28-C36	<10.0	10.0	01/13/2021	ND						

Surrogate: 1-Chlorooctane 76.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 72.1 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/12/2021	Sampling Date:	01/12/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: AH - 4 (2'-3') (H210066-08)

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	01/13/2021	ND	2.01	101	2.00	6.08		
Toluene*	<0.050	0.050	01/13/2021	ND	1.99	99.7	2.00	6.23		
Ethylbenzene*	<0.050	0.050	01/13/2021	ND	1.93	96.4	2.00	6.23		
Total Xylenes*	<0.150	0.150	01/13/2021	ND	5.65	94.1	6.00	5.91		
Total BTEX	<0.300	0.300	01/13/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/13/2021	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	01/13/2021	ND	231	116	200	4.52		
DRO >C10-C28*	<10.0	10.0	01/13/2021	ND	221	110	200	2.99		
EXT DRO >C28-C36	<10.0	10.0	01/13/2021	ND						

Surrogate: 1-Chlorooctane 86.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.9 % 42.2-156

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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
 JOE TYLER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	01/12/2021	Sampling Date:	01/12/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: AH - 5 (0-1') (H210066-09)

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	01/13/2021	ND	2.01	101	2.00	6.08		
Toluene*	<0.050	0.050	01/13/2021	ND	1.99	99.7	2.00	6.23		
Ethylbenzene*	<0.050	0.050	01/13/2021	ND	1.93	96.4	2.00	6.23		
Total Xylenes*	<0.150	0.150	01/13/2021	ND	5.65	94.1	6.00	5.91		
Total BTEX	<0.300	0.300	01/13/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	01/13/2021	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	01/13/2021	ND	231	116	200	4.52		
DRO >C10-C28*	<10.0	10.0	01/13/2021	ND	221	110	200	2.99		
EXT DRO >C28-C36	<10.0	10.0	01/13/2021	ND						

Surrogate: 1-Chlorooctane 82.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 76.7 % 42.2-156

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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
 JOE TYLER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	01/12/2021	Sampling Date:	01/12/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: AH - 5 (1'-2') (H210066-10)

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	01/13/2021	ND	2.01	101	2.00	6.08	
Toluene*	<0.050	0.050	01/13/2021	ND	1.99	99.7	2.00	6.23	
Ethylbenzene*	<0.050	0.050	01/13/2021	ND	1.93	96.4	2.00	6.23	
Total Xylenes*	<0.150	0.150	01/13/2021	ND	5.65	94.1	6.00	5.91	
Total BTEX	<0.300	0.300	01/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/13/2021	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	01/13/2021	ND	231	116	200	4.52	
DRO >C10-C28*	<10.0	10.0	01/13/2021	ND	221	110	200	2.99	
EXT DRO >C28-C36	<10.0	10.0	01/13/2021	ND					

Surrogate: 1-Chlorooctane 87.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.7 % 42.2-156

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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
 JOE TYLER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	01/12/2021	Sampling Date:	01/12/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: AH - 5 (2'-3') (H210066-11)

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	01/13/2021	ND	2.01	101	2.00	6.08	
Toluene*	<0.050	0.050	01/13/2021	ND	1.99	99.7	2.00	6.23	
Ethylbenzene*	<0.050	0.050	01/13/2021	ND	1.93	96.4	2.00	6.23	
Total Xylenes*	<0.150	0.150	01/13/2021	ND	5.65	94.1	6.00	5.91	
Total BTEX	<0.300	0.300	01/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/13/2021	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	01/13/2021	ND	226	113	200	0.558	
DRO >C10-C28*	22.8	10.0	01/13/2021	ND	223	111	200	0.426	
EXT DRO >C28-C36	23.8	10.0	01/13/2021	ND					

Surrogate: 1-Chlorooctane 99.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.2 % 42.2-156

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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
 JOE TYLER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	01/12/2021	Sampling Date:	01/12/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: AH - 5 (3'-4') (H210066-12)

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	01/13/2021	ND	2.01	101	2.00	6.08	
Toluene*	<0.050	0.050	01/13/2021	ND	1.99	99.7	2.00	6.23	
Ethylbenzene*	<0.050	0.050	01/13/2021	ND	1.93	96.4	2.00	6.23	
Total Xylenes*	<0.150	0.150	01/13/2021	ND	5.65	94.1	6.00	5.91	
Total BTEX	<0.300	0.300	01/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/13/2021	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	01/13/2021	ND	226	113	200	0.558	
DRO >C10-C28*	<10.0	10.0	01/13/2021	ND	223	111	200	0.426	
EXT DRO >C28-C36	<10.0	10.0	01/13/2021	ND					

Surrogate: 1-Chlorooctane 96.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.3 % 42.2-156

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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
 JOE TYLER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	01/12/2021	Sampling Date:	01/12/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: AH - 5 (4'-5') (H210066-13)

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	01/13/2021	ND	2.01	100	2.00	0.534	
Toluene*	<0.050	0.050	01/13/2021	ND	2.01	100	2.00	0.875	
Ethylbenzene*	<0.050	0.050	01/13/2021	ND	1.96	97.9	2.00	0.915	
Total Xylenes*	<0.150	0.150	01/13/2021	ND	5.75	95.9	6.00	1.20	
Total BTEX	<0.300	0.300	01/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	01/13/2021	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	01/13/2021	ND	226	113	200	0.558	
DRO >C10-C28*	<10.0	10.0	01/13/2021	ND	223	111	200	0.426	
EXT DRO >C28-C36	<10.0	10.0	01/13/2021	ND					

Surrogate: 1-Chlorooctane 93.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.0 % 42.2-156

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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
 JOE TYLER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	01/12/2021	Sampling Date:	01/12/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: AH - 5 (5'-6') (H210066-14)

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	01/13/2021	ND	2.01	100	2.00	0.534	
Toluene*	<0.050	0.050	01/13/2021	ND	2.01	100	2.00	0.875	
Ethylbenzene*	<0.050	0.050	01/13/2021	ND	1.96	97.9	2.00	0.915	
Total Xylenes*	<0.150	0.150	01/13/2021	ND	5.75	95.9	6.00	1.20	
Total BTEX	<0.300	0.300	01/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/13/2021	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	01/13/2021	ND	226	113	200	0.558	
DRO >C10-C28*	<10.0	10.0	01/13/2021	ND	223	111	200	0.426	
EXT DRO >C28-C36	<10.0	10.0	01/13/2021	ND					

Surrogate: 1-Chlorooctane 92.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.7 % 42.2-156

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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
 JOE TYLER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	01/12/2021	Sampling Date:	01/12/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: AH - 6 (0-1') (H210066-15)

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	01/13/2021	ND	2.01	100	2.00	0.534	
Toluene*	<0.050	0.050	01/13/2021	ND	2.01	100	2.00	0.875	
Ethylbenzene*	<0.050	0.050	01/13/2021	ND	1.96	97.9	2.00	0.915	
Total Xylenes*	<0.150	0.150	01/13/2021	ND	5.75	95.9	6.00	1.20	
Total BTEX	<0.300	0.300	01/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	01/13/2021	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	01/13/2021	ND	226	113	200	0.558	
DRO >C10-C28*	<10.0	10.0	01/13/2021	ND	223	111	200	0.426	
EXT DRO >C28-C36	<10.0	10.0	01/13/2021	ND					

Surrogate: 1-Chlorooctane 95.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.8 % 42.2-156

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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
 JOE TYLER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	01/12/2021	Sampling Date:	01/12/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: AH - 6 (1'-2') (H210066-16)

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	01/13/2021	ND	2.01	100	2.00	0.534	
Toluene*	<0.050	0.050	01/13/2021	ND	2.01	100	2.00	0.875	
Ethylbenzene*	<0.050	0.050	01/13/2021	ND	1.96	97.9	2.00	0.915	
Total Xylenes*	<0.150	0.150	01/13/2021	ND	5.75	95.9	6.00	1.20	
Total BTEX	<0.300	0.300	01/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/13/2021	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	01/13/2021	ND	226	113	200	0.558	
DRO >C10-C28*	<10.0	10.0	01/13/2021	ND	223	111	200	0.426	
EXT DRO >C28-C36	<10.0	10.0	01/13/2021	ND					

Surrogate: 1-Chlorooctane 97.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.9 % 42.2-156

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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
 JOE TYLER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	01/12/2021	Sampling Date:	01/12/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: AH - 6 (2'-3') (H210066-17)

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	01/13/2021	ND	2.01	100	2.00	0.534	
Toluene*	<0.050	0.050	01/13/2021	ND	2.01	100	2.00	0.875	
Ethylbenzene*	<0.050	0.050	01/13/2021	ND	1.96	97.9	2.00	0.915	
Total Xylenes*	<0.150	0.150	01/13/2021	ND	5.75	95.9	6.00	1.20	
Total BTEX	<0.300	0.300	01/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/13/2021	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	01/13/2021	ND	226	113	200	0.558	
DRO >C10-C28*	<10.0	10.0	01/13/2021	ND	223	111	200	0.426	
EXT DRO >C28-C36	<10.0	10.0	01/13/2021	ND					

Surrogate: 1-Chlorooctane 94.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.2 % 42.2-156

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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
 JOE TYLER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	01/12/2021	Sampling Date:	01/12/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: AH - 6 (3'-4') (H210066-18)

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	01/14/2021	ND	2.04	102	2.00	0.588	
Toluene*	<0.050	0.050	01/14/2021	ND	2.02	101	2.00	0.655	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	1.98	98.8	2.00	0.457	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.80	96.6	6.00	0.294	
Total BTEX	<0.300	0.300	01/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/13/2021	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	01/13/2021	ND	226	113	200	0.558	
DRO >C10-C28*	<10.0	10.0	01/13/2021	ND	223	111	200	0.426	
EXT DRO >C28-C36	<10.0	10.0	01/13/2021	ND					

Surrogate: 1-Chlorooctane 95.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.8 % 42.2-156

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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
 JOE TYLER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	01/12/2021	Sampling Date:	01/12/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: AH - 6 (4'-5') (H210066-19)

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	01/14/2021	ND	2.04	102	2.00	0.588	
Toluene*	<0.050	0.050	01/14/2021	ND	2.02	101	2.00	0.655	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	1.98	98.8	2.00	0.457	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.80	96.6	6.00	0.294	
Total BTEX	<0.300	0.300	01/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/13/2021	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	01/13/2021	ND	226	113	200	0.558	
DRO >C10-C28*	<10.0	10.0	01/13/2021	ND	223	111	200	0.426	
EXT DRO >C28-C36	<10.0	10.0	01/13/2021	ND					

Surrogate: 1-Chlorooctane 99.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.7 % 42.2-156

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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
 JOE TYLER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	01/12/2021	Sampling Date:	01/12/2021
Reported:	01/14/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: AH - 6 (5'-6') (H210066-20)

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	01/14/2021	ND	2.04	102	2.00	0.588	
Toluene*	<0.050	0.050	01/14/2021	ND	2.02	101	2.00	0.655	
Ethylbenzene*	<0.050	0.050	01/14/2021	ND	1.98	98.8	2.00	0.457	
Total Xylenes*	<0.150	0.150	01/14/2021	ND	5.80	96.6	6.00	0.294	
Total BTEX	<0.300	0.300	01/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/13/2021	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	01/13/2021	ND	226	113	200	0.558	
DRO >C10-C28*	<10.0	10.0	01/13/2021	ND	223	111	200	0.426	
EXT DRO >C28-C36	<10.0	10.0	01/13/2021	ND					

Surrogate: 1-Chlorooctane 93.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.5 % 42.2-156

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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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 2

Company Name: <u>Conoco Phillips</u> Project Manager: <u>Joe Tyler w/ Teresa Tech</u> Address: _____ City: _____ State: _____ Zip: _____ Phone #: <u>482-210-6952</u> Fax #: _____ Project #: _____ Project Owner: _____ Project Name: <u>Conoco Phillips Warren Unit #19 Release</u> Project Location: <u>Warren Unit #19</u> Sampler Name: <u>Joe Tyler</u>		P.O. #: _____ Company: <u>Conoco Phillips</u> Attn: <u>Brent Sommer</u> Address: <u>brent.w.sommer@conocophillips.com</u> City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. <u>AH210066</u> Sample I.D. _____ Matrix: <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input checked="" type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER: (G)RAB OR (C)OMP. <input type="checkbox"/> # CONTAINERS _____ PRESERV. _____ SAMPLING _____		ANALYSIS REQUEST BTEX <input checked="" type="checkbox"/> TPH <input checked="" type="checkbox"/> Chlorides <input checked="" type="checkbox"/>	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		BILL TO ANALYSIS REQUEST	
Relinquished By: <u>Joe Tyler</u> Date: <u>1-13-2021</u> Time: <u>1:55</u>		Received By: <u>Brent Sommer</u> Date: _____ Time: _____	
Delivered By: (Circle One) Sample - UPS - Bus - Other: _____ Observed Temp. °C <u>-0.1</u> Corrected Temp. °C _____		Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush Bacteria (only) <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Sample Condition <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Checked By: <u>Joe</u> Initials: _____	
Remarks: <u>Brent Sommer @ conocoPhillips.com</u> <u>je.tyler@teratech.com</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____	

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 2

Company Name: *Same as Page 1 of 2*

BILL TO

ANALYSIS REQUEST

Project Manager: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: _____ City: _____ State: _____ Zip: _____
 Project Location: _____ Phone #: _____
 Sampler Name: _____ Fax #: _____
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME							
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :									ACID/BASE:
<i>H2O/wide</i>	AH-5 (2-3)	G	1			X					1-13-21							BTEX
	AH-5 (3-4)																	TPH
	AH-5 (4-5)																	Chlorides
	AH-5 (5-6)																	
	AH-6 (0-1)																	
	AH-6 (1-2)																	
	AH-6 (2-3)																	
	AH-6 (3-4)																	
	AH-6 (4-5)																	
	AH-6 (5-6)																	

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Relinquished By: _____
 Date: _____
 Time: _____
 Received By: _____
 Date: _____
 Time: _____

Delivered By: (Circle One) Observed Temp. °C: *-02*
 Cooler Intact Yes No
 Sample Condition: Cool Intact
 Corrected Temp. °C: _____
 Checked By: (Initials) *JG*
 Turnaround Time: _____
 Standard Rush
 Bacteria (only) Sample Condition: Cool Intact
 Corrected Temp. °C: _____

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

February 04, 2021

JOE TYLER

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: WARREN UNIT #19 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/01/21 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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:

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

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: NSW - 1 (H210246-01)

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	02/04/2021	ND	2.20	110	2.00	4.32	
Toluene*	<0.050	0.050	02/04/2021	ND	2.14	107	2.00	4.92	
Ethylbenzene*	<0.050	0.050	02/04/2021	ND	2.11	105	2.00	4.52	
Total Xylenes*	<0.150	0.150	02/04/2021	ND	6.19	103	6.00	4.13	
Total BTEX	<0.300	0.300	02/04/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/03/2021	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	02/02/2021	ND	169	84.6	200	7.52	
DRO >C10-C28*	21.6	10.0	02/02/2021	ND	175	87.4	200	5.99	
EXT DRO >C28-C36	24.4	10.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 108 % 42.2-156

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: NSW - 2 (H210246-02)

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	02/02/2021	ND	2.20	110	2.00	4.32	
Toluene*	<0.050	0.050	02/02/2021	ND	2.14	107	2.00	4.92	
Ethylbenzene*	<0.050	0.050	02/02/2021	ND	2.11	105	2.00	4.52	
Total Xylenes*	<0.150	0.150	02/02/2021	ND	6.19	103	6.00	4.13	
Total BTEX	<0.300	0.300	02/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/03/2021	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	02/02/2021	ND	169	84.6	200	7.52	
DRO >C10-C28*	<10.0	10.0	02/02/2021	ND	175	87.4	200	5.99	
EXT DRO >C28-C36	<10.0	10.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 110 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SSW - 1 (H210246-03)

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	02/02/2021	ND	2.20	110	2.00	4.32	
Toluene*	<0.050	0.050	02/02/2021	ND	2.14	107	2.00	4.92	
Ethylbenzene*	<0.050	0.050	02/02/2021	ND	2.11	105	2.00	4.52	
Total Xylenes*	<0.150	0.150	02/02/2021	ND	6.19	103	6.00	4.13	
Total BTEX	<0.300	0.300	02/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/03/2021	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	02/02/2021	ND	169	84.6	200	7.52	
DRO >C10-C28*	<10.0	10.0	02/02/2021	ND	175	87.4	200	5.99	
EXT DRO >C28-C36	<10.0	10.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-144

Surrogate: 1-Chlorooctadecane 115 % 42.2-156

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Analytical Results For:

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

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: ESW - 1 (H210246-04)

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	02/02/2021	ND	2.20	110	2.00	4.32	
Toluene*	<0.050	0.050	02/02/2021	ND	2.14	107	2.00	4.92	
Ethylbenzene*	<0.050	0.050	02/02/2021	ND	2.11	105	2.00	4.52	
Total Xylenes*	<0.150	0.150	02/02/2021	ND	6.19	103	6.00	4.13	
Total BTEX	<0.300	0.300	02/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/03/2021	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	02/02/2021	ND	169	84.6	200	7.52	
DRO >C10-C28*	<10.0	10.0	02/02/2021	ND	175	87.4	200	5.99	
EXT DRO >C28-C36	<10.0	10.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 108 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 42.2-156

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Analytical Results For:

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

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: ESW - 2 (H210246-05)

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	02/02/2021	ND	2.20	110	2.00	4.32	
Toluene*	<0.050	0.050	02/02/2021	ND	2.14	107	2.00	4.92	
Ethylbenzene*	<0.050	0.050	02/02/2021	ND	2.11	105	2.00	4.52	
Total Xylenes*	<0.150	0.150	02/02/2021	ND	6.19	103	6.00	4.13	
Total BTEX	<0.300	0.300	02/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/03/2021	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	02/02/2021	ND	169	84.6	200	7.52	
DRO >C10-C28*	<10.0	10.0	02/02/2021	ND	175	87.4	200	5.99	
EXT DRO >C28-C36	<10.0	10.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: ESW - 3 (H210246-06)

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	02/02/2021	ND	2.20	110	2.00	4.32	
Toluene*	<0.050	0.050	02/02/2021	ND	2.14	107	2.00	4.92	
Ethylbenzene*	<0.050	0.050	02/02/2021	ND	2.11	105	2.00	4.52	
Total Xylenes*	<0.150	0.150	02/02/2021	ND	6.19	103	6.00	4.13	
Total BTEX	<0.300	0.300	02/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/03/2021	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	02/02/2021	ND	169	84.6	200	7.52	
DRO >C10-C28*	<10.0	10.0	02/02/2021	ND	175	87.4	200	5.99	
EXT DRO >C28-C36	<10.0	10.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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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
 JOE TYLER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: ESW - 4 (H210246-07)

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	02/02/2021	ND	2.20	110	2.00	4.32	
Toluene*	<0.050	0.050	02/02/2021	ND	2.14	107	2.00	4.92	
Ethylbenzene*	<0.050	0.050	02/02/2021	ND	2.11	105	2.00	4.52	
Total Xylenes*	<0.150	0.150	02/02/2021	ND	6.19	103	6.00	4.13	
Total BTEX	<0.300	0.300	02/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/03/2021	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	02/02/2021	ND	169	84.6	200	7.52	
DRO >C10-C28*	<10.0	10.0	02/02/2021	ND	175	87.4	200	5.99	
EXT DRO >C28-C36	<10.0	10.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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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
 JOE TYLER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: WSW - 1 (H210246-08)

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	02/02/2021	ND	2.20	110	2.00	4.32	
Toluene*	<0.050	0.050	02/02/2021	ND	2.14	107	2.00	4.92	
Ethylbenzene*	<0.050	0.050	02/02/2021	ND	2.11	105	2.00	4.52	
Total Xylenes*	<0.150	0.150	02/02/2021	ND	6.19	103	6.00	4.13	
Total BTEX	<0.300	0.300	02/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/03/2021	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	02/02/2021	ND	169	84.6	200	7.52	
DRO >C10-C28*	<10.0	10.0	02/02/2021	ND	175	87.4	200	5.99	
EXT DRO >C28-C36	<10.0	10.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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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
 JOE TYLER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: WSW - 2 (H210246-09)

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	02/02/2021	ND	2.20	110	2.00	4.32	
Toluene*	<0.050	0.050	02/02/2021	ND	2.14	107	2.00	4.92	
Ethylbenzene*	<0.050	0.050	02/02/2021	ND	2.11	105	2.00	4.52	
Total Xylenes*	<0.150	0.150	02/02/2021	ND	6.19	103	6.00	4.13	
Total BTEX	<0.300	0.300	02/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/03/2021	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	02/02/2021	ND	169	84.6	200	7.52	
DRO >C10-C28*	<10.0	10.0	02/02/2021	ND	175	87.4	200	5.99	
EXT DRO >C28-C36	<10.0	10.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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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
 JOE TYLER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: WSW - 3 (H210246-10)

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	02/02/2021	ND	2.20	110	2.00	4.32		
Toluene*	<0.050	0.050	02/02/2021	ND	2.14	107	2.00	4.92		
Ethylbenzene*	<0.050	0.050	02/02/2021	ND	2.11	105	2.00	4.52		
Total Xylenes*	<0.150	0.150	02/02/2021	ND	6.19	103	6.00	4.13		
Total BTEX	<0.300	0.300	02/02/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/03/2021	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	02/02/2021	ND	188	93.8	200	6.18	QR-03	
DRO >C10-C28*	<10.0	10.0	02/02/2021	ND	189	94.7	200	4.76		
EXT DRO >C28-C36	<10.0	10.0	02/02/2021	ND						

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.7 % 42.2-156

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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
 JOE TYLER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: FLOOR - 1 (H210246-11)

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	02/02/2021	ND	2.20	110	2.00	4.32		
Toluene*	<0.050	0.050	02/02/2021	ND	2.14	107	2.00	4.92		
Ethylbenzene*	<0.050	0.050	02/02/2021	ND	2.11	105	2.00	4.52		
Total Xylenes*	<0.150	0.150	02/02/2021	ND	6.19	103	6.00	4.13		
Total BTEX	<0.300	0.300	02/02/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/03/2021	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	02/02/2021	ND	188	93.8	200	6.18		
DRO >C10-C28*	<10.0	10.0	02/02/2021	ND	189	94.7	200	4.76		
EXT DRO >C28-C36	<10.0	10.0	02/02/2021	ND						

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.8 % 42.2-156

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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
 JOE TYLER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: FLOOR - 2 (H210246-12)

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	02/02/2021	ND	2.20	110	2.00	4.32	
Toluene*	<0.050	0.050	02/02/2021	ND	2.14	107	2.00	4.92	
Ethylbenzene*	<0.050	0.050	02/02/2021	ND	2.11	105	2.00	4.52	
Total Xylenes*	<0.150	0.150	02/02/2021	ND	6.19	103	6.00	4.13	
Total BTEX	<0.300	0.300	02/02/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/03/2021	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	02/02/2021	ND	188	93.8	200	6.18	
DRO >C10-C28*	128	10.0	02/02/2021	ND	189	94.7	200	4.76	
EXT DRO >C28-C36	156	10.0	02/02/2021	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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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
 JOE TYLER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: FLOOR - 3 (H210246-13)

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	02/02/2021	ND	2.20	110	2.00	4.32		
Toluene*	<0.050	0.050	02/02/2021	ND	2.14	107	2.00	4.92		
Ethylbenzene*	<0.050	0.050	02/02/2021	ND	2.11	105	2.00	4.52		
Total Xylenes*	<0.150	0.150	02/02/2021	ND	6.19	103	6.00	4.13		
Total BTEX	<0.300	0.300	02/02/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/03/2021	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	02/02/2021	ND	188	93.8	200	6.18		
DRO >C10-C28*	<10.0	10.0	02/02/2021	ND	189	94.7	200	4.76		
EXT DRO >C28-C36	<10.0	10.0	02/02/2021	ND						

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.8 % 42.2-156

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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
 JOE TYLER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	02/01/2021	Sampling Date:	02/01/2021
Reported:	02/04/2021	Sampling Type:	Soil
Project Name:	WARREN UNIT #19 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: FLOOR - 4 (H210246-14)

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	02/02/2021	ND	2.20	110	2.00	4.32		
Toluene*	<0.050	0.050	02/02/2021	ND	2.14	107	2.00	4.92		
Ethylbenzene*	<0.050	0.050	02/02/2021	ND	2.11	105	2.00	4.52		
Total Xylenes*	<0.150	0.150	02/02/2021	ND	6.19	103	6.00	4.13		
Total BTEX	<0.300	0.300	02/02/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/03/2021	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	02/02/2021	ND	188	93.8	200	6.18		
DRO >C10-C28*	<10.0	10.0	02/02/2021	ND	189	94.7	200	4.76		
EXT DRO >C28-C36	<10.0	10.0	02/02/2021	ND						

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- 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 LCS/D 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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 01 of 02

Company Name: <u>Conoco Phillips</u>		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Joe Tyler w/ Tetra Tech</u>		P.O. #:			
Address:		Company: <u>Conoco Phillips</u>			
City:		Attn: <u>Brent Swimmer</u>			
Phone #: <u>(432) 210-6959</u>		Address: <u>Heart of Swimmer</u>			
State:		City: <u>@conocophillips.com</u>			
Zip:		State:			
Project #:		Zip:			
Project Name: <u>ConocoPhillips Waberen Unit #19 Release</u>		Phone #:			
Project Location: <u>Waberen Unit #19</u>		Fax #:			
Sampler Name: <u>Joe Tyler</u>		SAMPLING			
<small>FOR LAB USE ONLY</small>		FOR LAB USE ONLY			
Lab I.D.		Sample I.D.			
<u>#10044</u>		(G)RAB OR (C)OMP.			
1 NSU-1		# CONTAINERS			
2 NSU-2		G 1			
3 SCU-1		GROUNDWATER			
4 ESU-1		WASTEWATER			
5 ESU-2		SOIL			
6 ESU-3		OIL			
7 ESU-4		SLUDGE			
8 WSCU-1		OTHER :			
9 WSCU-2		ACID/BASE:			
10 WSCU-3		ICE / COOL			
		OTHER :			
		DATE			
		TIME			
		X BTEX			
		X TPH			
		X Chlorides			

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Relinquished By: Joe Tyler **Date:** 2-01-2021

Received By: Brent Swimmer **Date:** 2-01-2021

Time: 1445

Delivered By: (Circle One) **Sampler** **UPS** **Bus** **Other:** 18.3c #113

Sample Condition
 Cool Intact
 Yes No Yes No

CHECKED BY: Joe Tyler (Initials)

REMARKS: Email to : Brent Swimmer Joe.Tyler@tetratech.com

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

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

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 02 of 02

BILL TO

ANALYSIS REQUEST

Company Name: CSB
 Project Manager: Joe Tyler w/ Tetra Tech
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: _____
 Project Location: Waven Unit #19
 Sampler Name: Joe Tyler

P.O. #: _____
 Company: See Page 01
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____
 Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME							
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:									
<u>H21D246</u>																			
	<u>11</u>	<u>1</u>	<u>1</u>			<u>X</u>					<u>8-01-21</u>		<u>X</u>	<u>BTEX</u>					
	<u>12</u>	<u>1</u>	<u>1</u>			<u>X</u>							<u>X</u>	<u>TPH</u>					
	<u>13</u>	<u>1</u>	<u>1</u>			<u>X</u>							<u>X</u>	<u>Chlorides</u>					
	<u>14</u>	<u>1</u>	<u>1</u>			<u>X</u>							<u>X</u>						

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

Relinquished By: _____ Date: 8-01-2021
 Received By: Lawrence Date: 8-01-2021
 Time: 1445

Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____
 REMARKS: Same as Page 01

Delivered By: (Circle One)
 UPS Bus Other: 18.3c #113
 Sample Condition: Cool Intact Yes No Yes No

CHECKED BY: _____ (Initials)
JP.

APPENDIX D

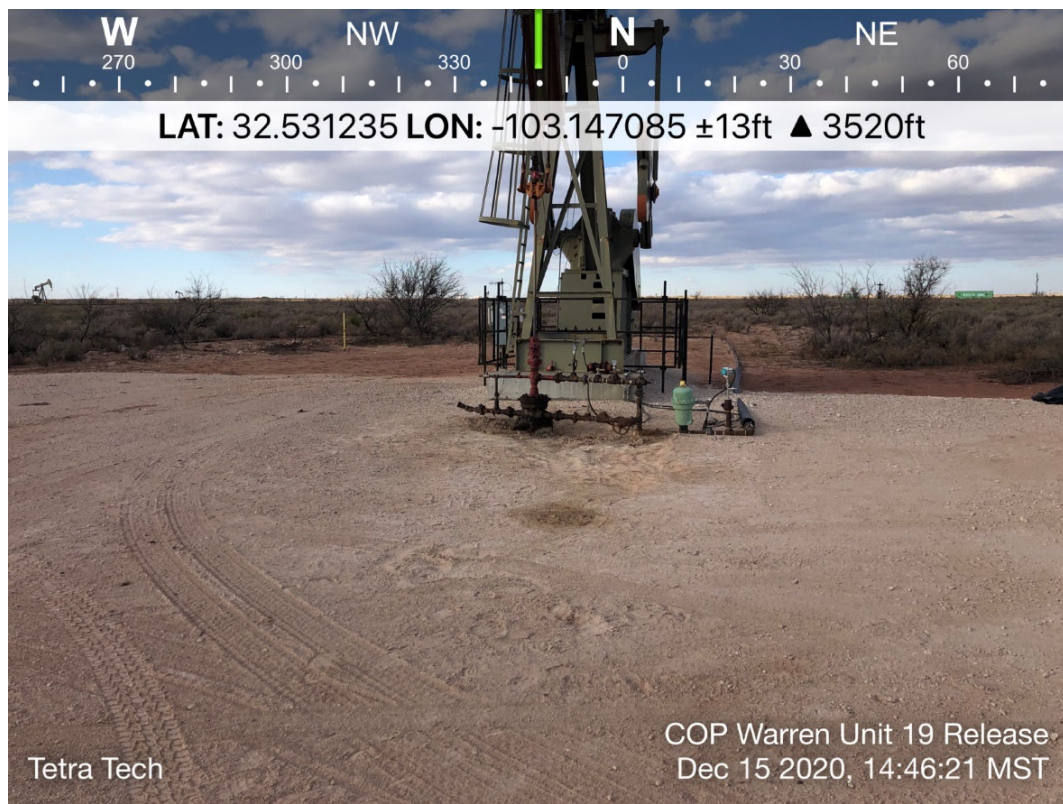
Photographic Documentation



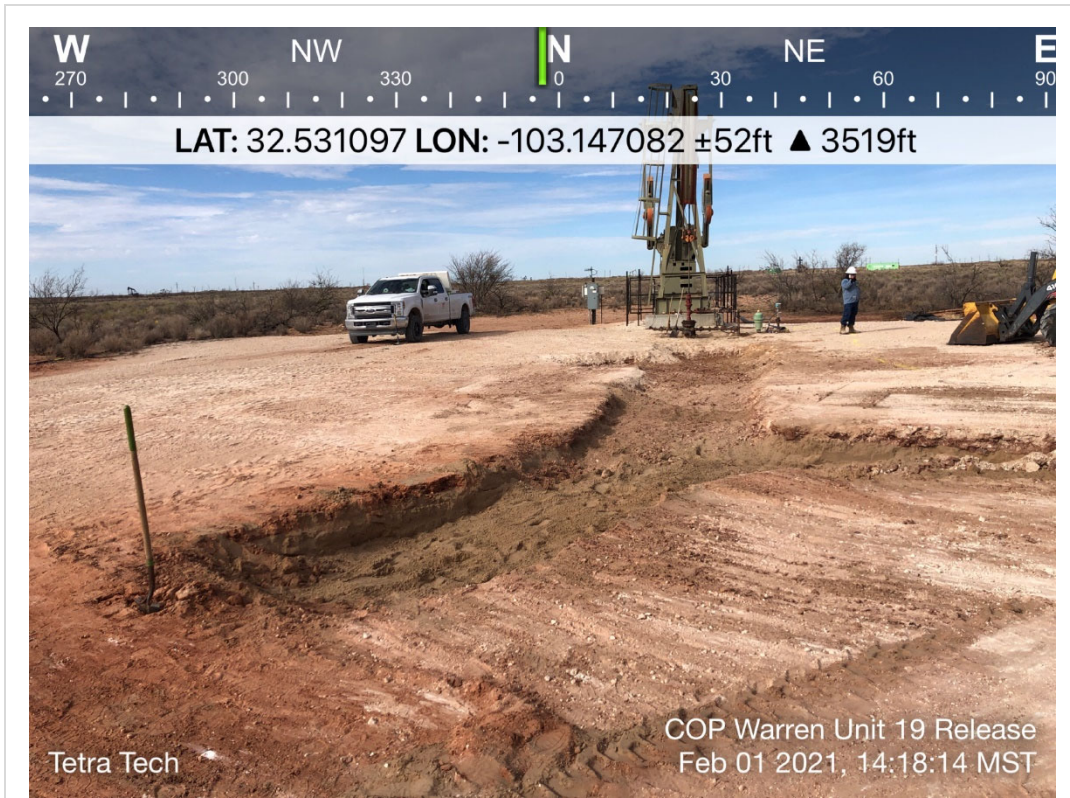
TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View of the initial Warren Unit #19 reported release extent area on pad, with wellhead and pumpjack to rear.	1
	SITE NAME	ConocoPhillips Warren Unit #19 Release	2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View of signage on the Warren Unit #19 pumping unit	2
	SITE NAME	ConocoPhillips Warren Unit #19 Release	12/15/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	View of initial response area near Warren Unit #19 wellhead and pumpjack.	3
	SITE NAME	ConocoPhillips Warren Unit #19 Release	12/15/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	Views of the Warren Unit #19 release excavation.	4
	SITE NAME	ConocoPhillips Warren Unit #19 Release	2/01/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	Views of the Warren Unit #19 release excavation.	5
	SITE NAME	ConocoPhillips Warren Unit #19 Release	2/01/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	Views of the Warren Unit #19 release excavation.	6
	SITE NAME	ConocoPhillips Warren Unit #19 Release	2/01/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-02377	DESCRIPTION	Views of the Warren Unit #19 release excavation.	7
	SITE NAME	ConocoPhillips Warren Unit #19 Release	2/01/2021

APPENDIX E

Waste Manifests



Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: JOE TYLER
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 2/1/2021
 Hauler: MCNABB PARTNERS
 Driver: TONY
 Truck #: M02
 Card #
 Job Ref #

Ticket #: 700-1192760
 Bid #: O6UJ9A000H7J
 Date: 2/1/2021
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 07878
 Well Name: WARREN UNIT BLINEBRY TU
 Well #: 019
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Permian Basin

Facility: CRI

Product / Service	Quantity	Units									
Contaminated Soil (RCRA Exempt)	10.00	yards									
Lab Analysis:	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
	50/51	0.00	0.00	0.00	0			2.00			

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)

Driver/ Agent Signature _____ **R360 Representative Signature** _____

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____ 



Customer: CONOCOPHILLIPS
 Customer #: CRI2190
 Ordered by: JOE TYLER
 AFE #:
 PO #:
 Manifest #: NA
 Manif. Date: 2/1/2021
 Hauler: MCNABB SERVICES
 Driver: JOE
 Truck #: M81
 Card #
 Job Ref #

Ticket #: 700-1192716
 Bid #: O6UJ9A000H7J
 Date: 2/1/2021
 Generator: CONOCOPHILLIPS
 Generator #:
 Well Ser. #: 07878
 Well Name: WARREN UNIT BLINEBRY TU
 Well #: 019
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Permian Basin

Facility: CRI

Product / Service	Quantity Units										
Contaminated Soil (RCRA Exempt)	20.00 yards										
	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

APPENDIX F NMOCD Extension

Waggaman, Kelsy

From: Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>
Sent: Thursday, January 7, 2021 11:11 AM
To: Waggaman, Kelsy
Subject: [EXTERNAL]Remediation Extension Applications

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

01/07/2021

Conoco Phillips
 Kelsy Waggaman – Conoco Phillips

Dear Kelsy,

For the locations/incidents indicated below and their associated time extension requests, the following:

The extensions for all three of the sites below are hereby APPROVED to the requested extension deadlines indicated in listing below. The Oil Conservation Division (OCD) appreciates your efforts. Thank you for the reminder, and please keep a copy of this communication for all three sites as no PAPER copy will follow.

Location	Incident Number	Date of Release	90-day Remediation Deadline	Requested Extension/Deadline	Nature of Release	Category and Volume of Release
Warren 19	NRM2032853982	10/20/20	1/18/20	4/18/21	Produced Water	Minor - 19 bbl
Tomahawk 19	NRM2028029792	9/25/25	12/24/20	3/24/21	Crude Oil	Major - 28 bbl total/ 10 bbl recovered
Satellite 3	NRM2027962353	9/19/20	12/18/20	3/18/21	Produced Water	Minor - 9 bbl

Sincerely,

Bradford Billings • Enviro. Spec. A
 Environmental Bureau
 EMNRD - Oil Conservation Division

5200 Oakland Ave. NE Suite 100 | Albuquerque, NM 87113
505.670.6549. |bradford.billings@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations

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
 1220 S. St Francis Dr., Santa Fe, NM 87505
 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 19740

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 19740
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	3/22/2022