



June 17, 2020

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

**Subject: Closure Letter Report
ConocoPhillips
1RP-4994
Warren Unit B/T WF #40 Release
Lea County, New Mexico**

Mr. Billings:

On behalf of ConocoPhillips (COP), Tetra Tech, Inc. (Tetra Tech) submits the following Closure Report for review. The ConocoPhillips Warren Unit Blinbry/Tubb WF #40 (API #30-025-25204) well is located approximately 20 miles south of Hobbs in Lea County, New Mexico (Site). The Site is located at coordinates 32.5458107°, -103.1342239 ° in Unit Letter G, Section 27, Township 20 South, Range 38 East.

BACKGROUND

According to the C-141, on March 15, 2018 at 1330 hrs. at the Warren Unit #40, a leak was found on an injection line resulting in a release of 12 barrels (bbls) of produced water with 0 bbl recovered. (Attachment A). Immediate action was to shut in line to stop spill. The New Mexico Oil Conservation District (NMOCD) received notification of the release on March 15, 2018 and subsequently assigned the Site the Remediation Permit number 1RP-4994.

SITE CHARACTERIZATION AND REGULATORY FRAMEWORK

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

Based on data from the New Mexico Office of the State Engineer (NMOSE), there are no water wells located in Unit Letter G, Section 27, Township 20 South, Range 38 East. However, within a radius search of 2.3 miles of the Site, there are four water wells. The average depth to groundwater is 65 feet below ground surface (bgs). The site characterization data is shown in Attachment B.

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, the RRALs for the Site are as follows:

Constituent	RRAL
Chloride (0 – 4 ft bgs)	600 mg/kg
Chloride (>4 ft bgs)	10,000 mg/kg
Total TPH (GRO+DRO)	1,000 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

TETRA TECH

8911 N. Capital of Texas Hwy, Building 2, Suite 2310, Austin, TX, 78759

Tel 512-338-1667 Fax 512-338-1331 www.tetrattech.com

Bradford Billings
NMOCD
June 17, 2020

SITE ASSESSMENT SUMMARY

Soil assessment activities for the Site were detailed in a Corrective Action Plan (CAP), which was drafted by COP personnel, but never finalized and submitted (Attachment C). According to the CAP, on October 11, 2018 COP personnel collected soil samples from five locations (SP #1 through SP #5) with a hand auger within the release footprint. At each location, samples were collected at depths of 0 feet bgs (ground surface), 1' bgs, 2' bgs, 4' bgs, and 8' bgs. Thus, a total of twenty (20) samples were submitted to Cardinal Laboratories in Hobbs, NM for analysis. See Figure 3 for sample locations.

All samples collected were analyzed for TPH by Environmental Protection Agency (EPA) Method 8015M, BTEX by EPA Method 8021B, and chlorides by EPA Method SM4500Cl-B. A copy of the laboratory analytical report is included in Attachment D.

The analytical results associated with the soil samples collected exceeded the applicable RRAL's for chlorides in all of the ground surface samples. The applicable RRAL for TPH (1,000 mg/kg) was exceeded at the surface sample interval associated with SP #4. There were no detections of BTEX in any of the analyzed samples. Soil assessment results are summarized in Table 1.

REMEDIAL ACTIONS SUMMARY

Based on the visual footprint and assessment data, remedial actions (proposed in the CAP) and conducted included excavating the entire release extent to 1-foot bgs. Following excavation activities, on February 19, 2019 COP collected confirmation sidewall samples at 12 locations and confirmation floor samples at 11 location and submitted them to Cardinal Laboratories to be analyzed for TPH, BTEX and chlorides (by EPA Method SM4500Cl-B).

Confirmation sidewall sampling results were below the RRAL for chloride in 10 of the 12 sidewall samples collected (Table 2). Sample locations Floor #6 and Floor #9 exceeded the RRAL. Confirmation sidewall sampling results were below the RRAL for chloride in 9 of the 11 samples collected (Table 2). Sample locations Wall #4 and Wall #5 exceeded the RRAL for chloride. A copy of the laboratory analytical report is included in Attachment D.

Due to the RRAL exceedances within the confirmation floor sample results, the excavation floor was deepened 2 additional feet in the vicinity of sample locations Floor #6 and Floor #9, as shown in Figure 4. Due to the RRAL exceedances within the confirmation sidewall sample results, the excavation area was expanded 5' to the south and west, in the vicinity of sample locations Wall #4 and Wall #5, as shown in Figure 4.

Following the additional excavation activities, on March 27, 2019 COP collected confirmation sidewall samples at 2 additional locations (Wall #1* and Wall #2*) as well as confirmation floor samples at 2 additional locations (Floor #1* and Floor #2*) and submitted them to Cardinal Laboratories to be analyzed for TPH, BTEX and chlorides (by EPA Method SM4500Cl-B). Final confirmation sampling results were below RRALs in all samples for all constituents (Table 3). A copy of the laboratory analytical report is included in Attachment D. Figure 4 depicts excavation extents, depths and locations. The excavated soil was taken to an NMOCD approved facility for disposal. The excavated areas were backfilled with clean soil.

VISUAL SITE INSPECTION

At the request of COP, on June 12, 2020 Tetra Tech personnel conducted a visual Site Inspection assessment at the former release area to evaluate current conditions at the Site. The formerly impacted area was identified from the description in the C-141 (and correspondence with ConocoPhillips).

TETRA TECH

Bradford Billings
NMOCD
June 17, 2020

Photographic documentation from the visual assessment (with stamped GPS coordinates) is included within Attachment D. A list of field observations describing the Site follow:

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

CONCLUSION

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

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

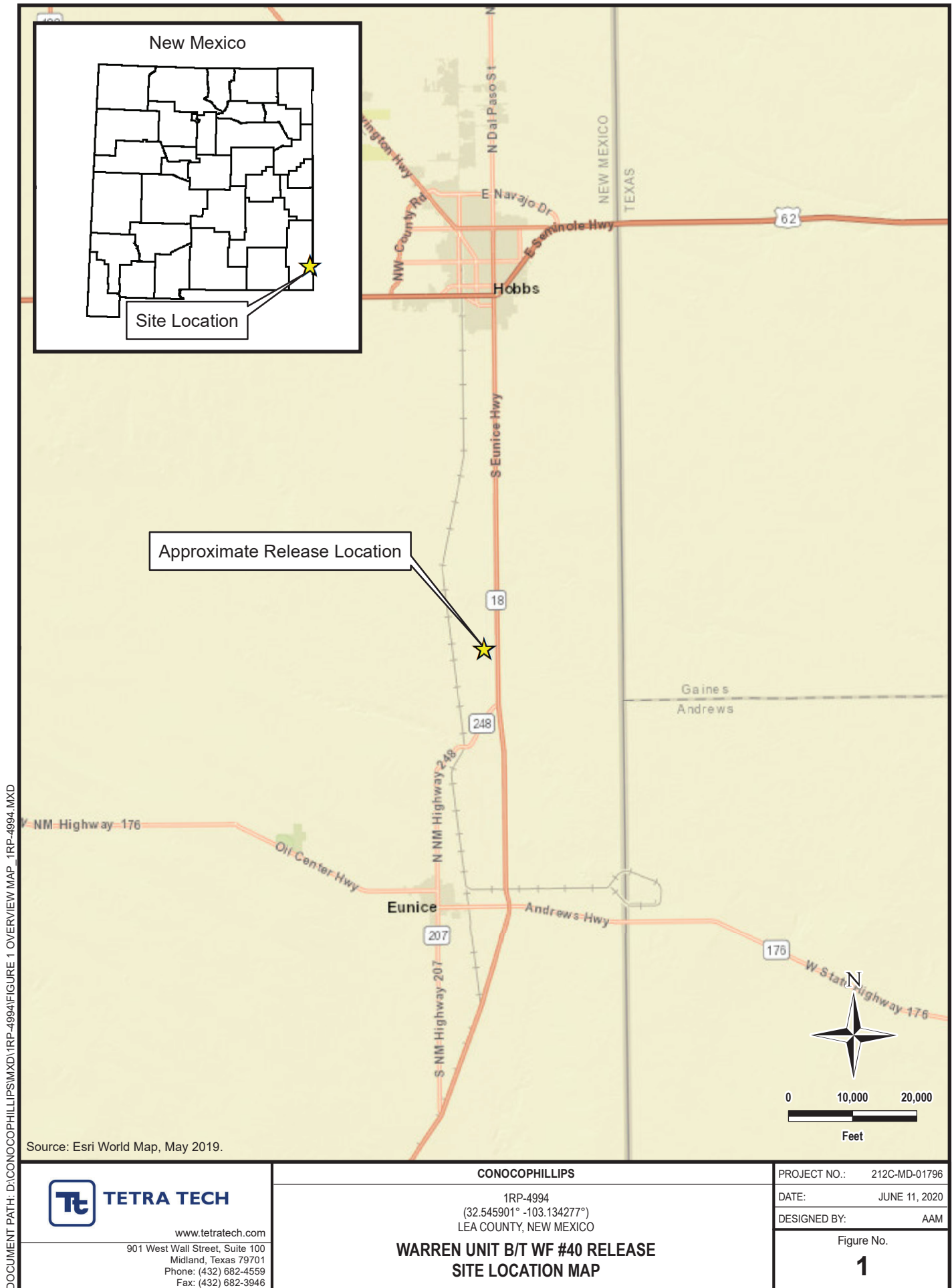
Sincerely,



Christian M. Llull
Project Manager
Tetra Tech, Inc.

TETRA TECH

FIGURES





DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-4994\FIGURE 2 TOPO - 1RP-4994.MXD


TETRA TECH
www.tetrattech.com

 901 West Wall Street, Suite 100
 Midland, Texas 79701
 Phone: (432) 682-4559
 Fax: (432) 682-3946

CONOCOPHILLIPS

 1RP-4994
 (32.545901° -103.134277°)
 LEA COUNTY, NEW MEXICO

**WARREN UNIT B/T WF #40 RELEASE
 TOPOGRAPHIC MAP**

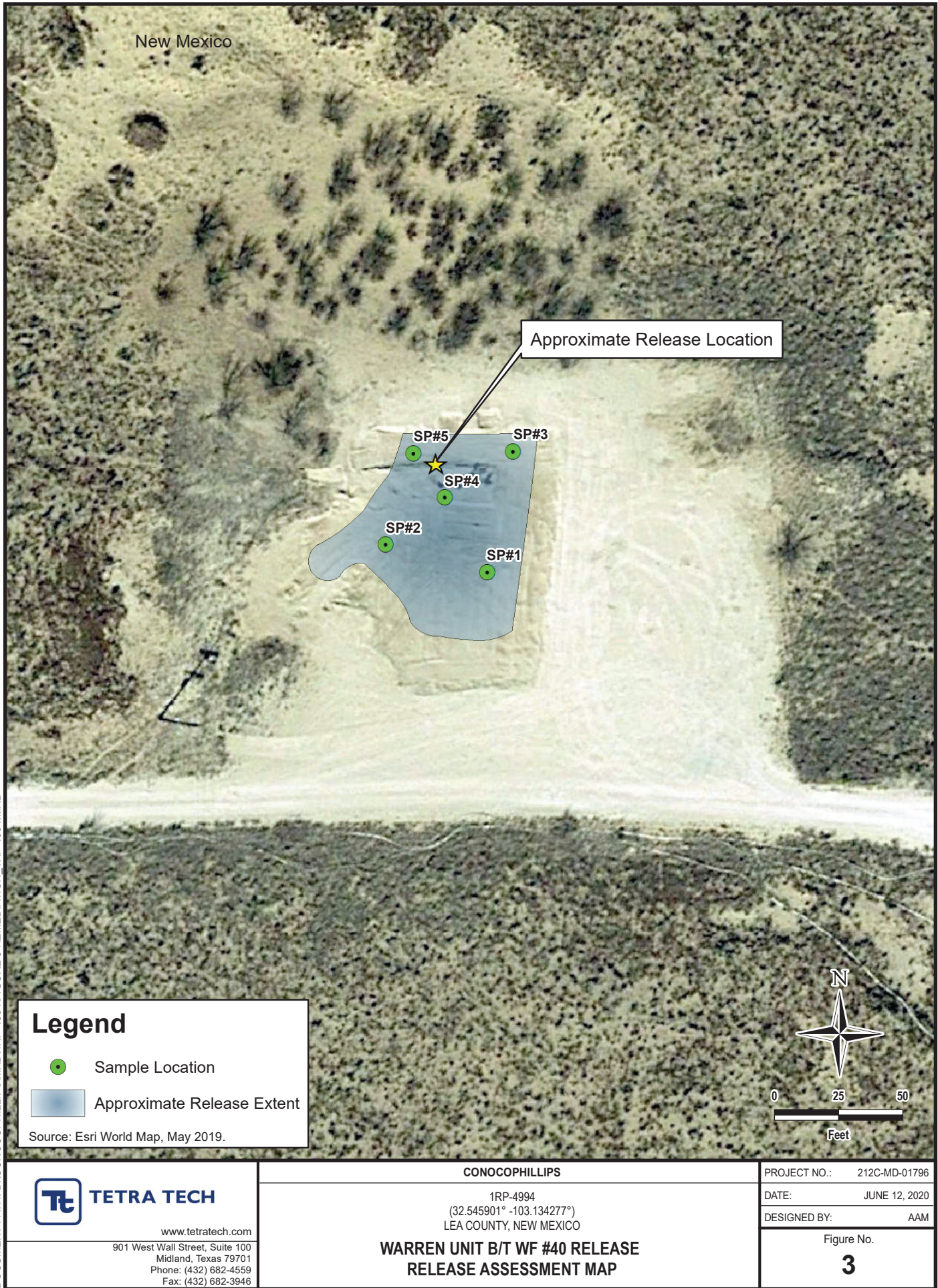
PROJECT NO.: 212C-MD-01796

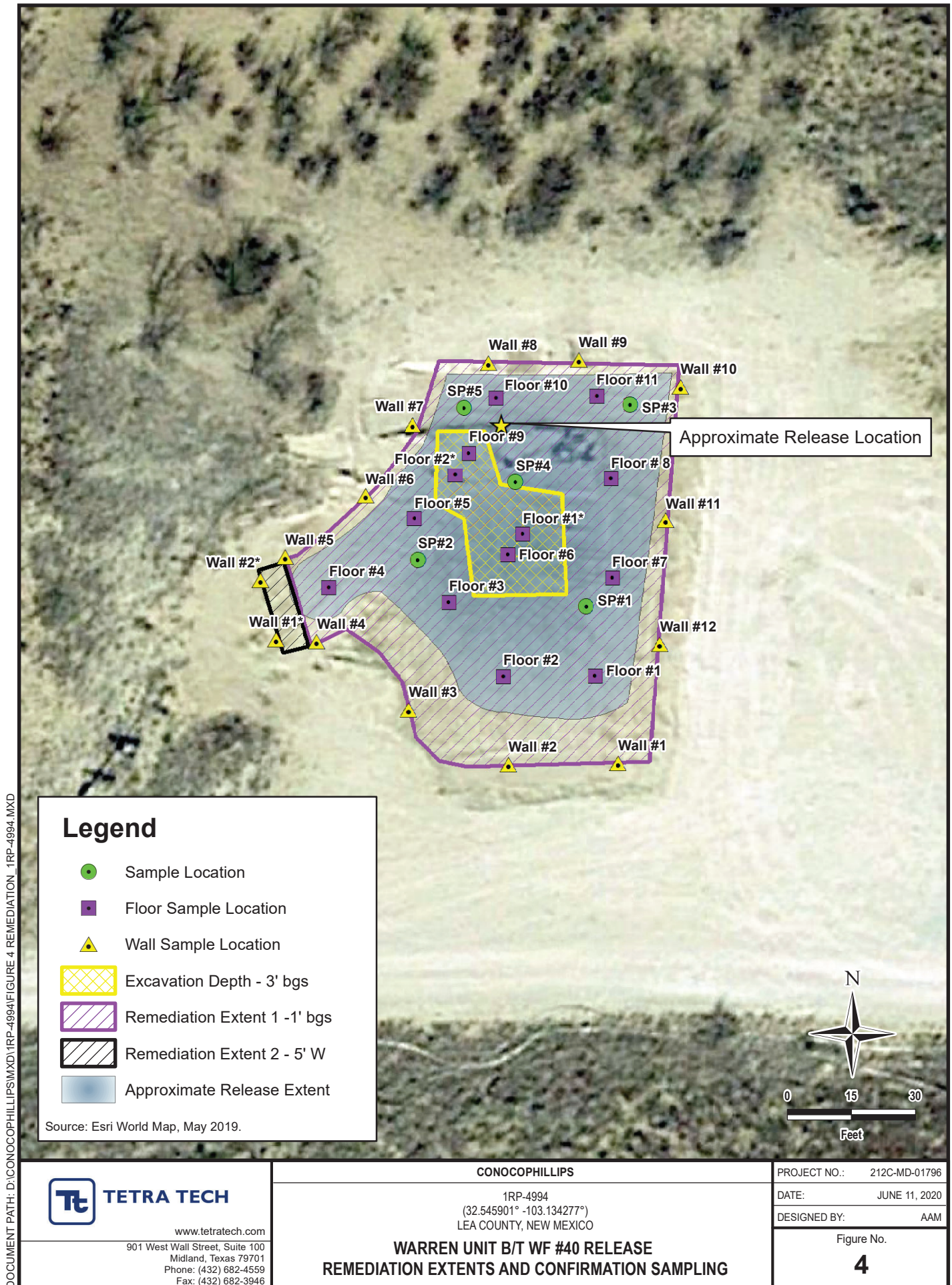
DATE: JUNE 11, 2020

DESIGNED BY: AAM

Figure No.

2





DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-4994\FIGURE 4 REMEDIATION - 1RP-4994.MXD

TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
INITIAL SOIL ASSESSMENT - 1RP-4994
CONOCOPHILLIPS
WARREN UNIT B/T WF WELL #40 RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³								
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO)	Total TPH (GRO+DRO+EXT DRO)	
															C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆				
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q			
SP #1	10/11/2018	SURFACE	2360		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		28.6		17.2		45.8		45.8
		2	128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		4	96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		6	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		8	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
SP #2	10/11/2018	SURFACE	2320		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		214		86.1		300		300
		2	144		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		11.0		13.4		24.4		24.4
		4	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		6	240		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		8	304		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
SP #3	10/11/2018	SURFACE	4520		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		353		152		505		505
		2	320		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		13.6		19.8		33.4		33.4
		4	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		6	96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		8	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
SP #4	10/11/2018	SURFACE	1460		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 50.0		882		289		1171		1171
		2	144		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		4	96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		6	144		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		8	672		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
SP #5	10/11/2018	SURFACE	3640		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		2	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		4	16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		6	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
		8	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-

NOTES:

ft. Feet

bgs Below ground surface

ppm Parts per million

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

Bold and italicized values indicate exceedance of proposed RRLs

1 SM4500CI-B

2 EPA Method 8021B

3 EPA Method 8015M

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
FEBRUARY 2019 CONFIRMATION SAMPLING EVENT - 1RP-4994
CONOCOPHILLIPS
WARREN UNIT B/T WF WELL #40 RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Chloride ¹		BTEx ²										TPH ³								
				Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEx		GRO		DRO		EXT DRO		Total TPH (GRO+DRO)	Total TPH (GRO+DRO+EXT DRO)	
		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆						
Floor #1	2/19/2019	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		48.7		41.3		90.0		90.0
Floor #2	2/19/2019	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Floor #3	2/19/2019	464		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Floor #4	2/19/2019	64.0		< 0.050	QR-03	< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Floor #5	2/19/2019	112		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Floor #6	2/19/2019	656		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Floor #7	2/19/2019	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Floor #8	2/19/2019	160		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Floor #9	2/19/2019	1180		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Floor #10	2/19/2019	256		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Floor #11	2/19/2019	112		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Wall #1	2/19/2019	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Wall #2	2/19/2019	192		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Wall #3	2/19/2019	528		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Wall #4	2/19/2019	1580		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Wall #5	2/19/2019	1070		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Wall #6	2/19/2019	128	QR-03	< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Wall #7	2/19/2019	192		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Wall #8	2/19/2019	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Wall #9	2/19/2019	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Wall #10	2/19/2019	48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Wall #11	2/19/2019	64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-
Wall #12	2/19/2019	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-

NOTES:

ft. Feet

bgs Below ground surface

ppm Parts per million

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

Bold and italicized values indicate exceedance of proposed RRLs

1 SM4500CI-B

2 EPA Method 8021B

3 EPA Method 8015M

QUALIFIERS:

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
CONFIRMATION SAMPLING EVENT - MARCH 2019
1RP-4994
CONOCOPHILLIPS
WARREN UNIT B/T WF WELL #40 RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Chloride ¹		BTEX ²										TPH ³									
				Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO)	Total TPH (GRO+DRO+EXT DRO)		
		C ₆ - C ₁₀												> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆							
		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q		
Floor #1 *	3/27/2019	192		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-	
Floor #2*	3/27/2019	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-	
Wall #1*	3/27/2019	80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-	
Wall #2*	3/27/2019	144		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-		-	

NOTES:

ft. Feet

bgs Below ground surface

ppm Parts per million

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

Bold and italicized values indicate exceedance of proposed RRALs

1 SM4500CI-B

2 EPA Method 8021B

3 EPA Method 8015M

ATTACHMENT A C-141 Forms

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

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: ConocoPhillips	Contact: Jose A Zepeda
Address: 1410 N West County Rd	Telephone No. 575-391-3165
Facility Name: Warren Unit B/T WF Well #40	Facility Type: Injection Line

Surface Owner: Fee	Mineral Owner: Federal	API No. 30-025-25204
---------------------------	-------------------------------	-----------------------------

LOCATION OF RELEASE

Unit Letter G	Section 27	Township 20S	Range 38E	Feet from the 1980 FNL	North/South Line	Feet from the 1980 FEL	East/West Line	County LEA
-------------------------	----------------------	------------------------	---------------------	---------------------------	------------------	---------------------------	----------------	----------------------

Latitude **32.5458107** Longitude **-103.1342239**

NATURE OF RELEASE

Type of Release: PRODUCE WATER & OIL MIX	Volume of Release: 12	Volume Recovered: 0
Source of Release: Injection Line	Date and Hour of Occurrence 03/15/2018 1330	Date and Hour of Discovery SAME
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Olivia Yu,	
By Whom? Jose A Zepeda	Date and Hour: 03/15/2018 1545 Via Email	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully. *

N/A

RECEIVED

By Olivia Yu at 12:39 pm, Mar 16, 2018

Describe Cause of Problem and Remedial Action Taken. *

On March 15, 2018 at 1330 hrs. at the Warren Unit #40, a leak was found on an injection line resulting in a release of 12.00 bbls. of produced water with 0 bbl. recovered. Immediate action was to shut in line to stop spill. Spill site will be remediated per COPC and NMOCD & BLM guidelines.

Describe Area Affected and Cleanup Action Taken. *

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: JOSE A ZEPEDA		OIL CONSERVATION DIVISION	
Printed Name: Jose A Zepeda			
Title: LEAD HSE	Approval Date: 3/16/2018	Expiration Date:	
E-mail Address: Jose. A. Zepeda@conocophillips.com	Conditions of Approval: see attached directive		Attached <input checked="" type="checkbox"/>
Date: 03/15/2018	Phone: 575-391-3165		

* Attach Additional Sheets If Necessary

1RP-4994

nOY1807545896

pOY1807546037

Incident ID	nOY1807545896
District RP	1RP-4994
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: Charles R. Beauvais II Title: Environmental Coordinator
Signature: Charles R. Beauvais II Date: 6/16/2020
email: charles.r.beauvais@conocophillips.com Telephone: 575-988-2043

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: Brittany Hall Date: 3/29/2023

Printed Name: Brittany Hall Title: Environmental Specialist

ATTACHMENT B
Site Characterization Data



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 07980		L	LE	4	3	26	20S	38E		676412	3601687*	1449	130	65	65
L 09918		L	LE	4	2	21	20S	38E		673954	3604063*	2016	135		
L 13546 POD1		L	LE	4	4	3	34	20S	38E	675011	3600037	2442	88		
L 10057 POD1		L	LE	3	1	1	24	20S	38E	677465	3604428*	2997	58		

Average Depth to Water: **65 feet**

Minimum Depth: **65 feet**

Maximum Depth: **65 feet**

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 675193.694

Northing (Y): 3602472.206

Radius: 3000

*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.

6/11/20 9:16 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Karst Potential Map

1RP-4994
Warren Unit B/T WF #40 Release

Hobbs

Monument

WARREN UNIT BLINEBRY TUBB WF #040

Eunice

Google Earth

© 2020 Google

Legend

- Feature 1
- High
- Low
- Medium
- WARREN UNIT BLINEBRY TUBB WF #040



10 mi

ATTACHMENT C
Corrective Action Plan (CAP)



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

October 17, 2018

JUSTIN WRIGHT

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: WARREN UNIT #40

Enclosed are the results of analyses for samples received by the laboratory on 10/12/18 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 1 - SURFACE (H802939-01)

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	10/17/2018	ND	2.34	117	2.00	2.35	
Toluene*	<0.050	0.050	10/17/2018	ND	2.18	109	2.00	2.14	
Ethylbenzene*	<0.050	0.050	10/17/2018	ND	2.20	110	2.00	0.294	
Total Xylenes*	<0.150	0.150	10/17/2018	ND	6.47	108	6.00	0.785	
Total BTEX	<0.300	0.300	10/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	10/17/2018	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	28.6	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	17.2	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 93.2 % 41-142

Surrogate: 1-Chlorooctadecane 96.1 % 37.6-147

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

Received: 10/12/2018
 Reported: 10/17/2018
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/11/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP # 1 - 2' (H802939-02)

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	10/17/2018	ND	2.34	117	2.00	2.35		
Toluene*	<0.050	0.050	10/17/2018	ND	2.18	109	2.00	2.14		
Ethylbenzene*	<0.050	0.050	10/17/2018	ND	2.20	110	2.00	0.294		
Total Xylenes*	<0.150	0.150	10/17/2018	ND	6.47	108	6.00	0.785		
Total BTEX	<0.300	0.300	10/17/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 94.0 % 41-142

Surrogate: 1-Chlorooctadecane 94.8 % 37.6-147

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

Received: 10/12/2018
 Reported: 10/17/2018
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/11/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP # 1 - 4' (H802939-03)

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	10/16/2018	ND	2.25	113	2.00	4.71		
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75		
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34		
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93		
Total BTEX	<0.300	0.300	10/16/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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

Received: 10/12/2018
 Reported: 10/17/2018
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/11/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP # 1 - 6' (H802939-04)

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	10/16/2018	ND	2.25	113	2.00	4.71		
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75		
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34		
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93		
Total BTEX	<0.300	0.300	10/16/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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

Received: 10/12/2018
 Reported: 10/17/2018
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/11/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP # 1 - 8' (H802939-05)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 2 - SURFACE (H802939-06)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2320	16.0	10/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	214	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	86.1	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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

Received: 10/12/2018
 Reported: 10/17/2018
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/11/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP # 2 - 2' (H802939-07)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	10/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	11.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	13.4	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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

Received: 10/12/2018
 Reported: 10/17/2018
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/11/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP # 2 - 4' (H802939-08)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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

Received: 10/12/2018
 Reported: 10/17/2018
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/11/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP # 2 - 6' (H802939-09)

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	10/16/2018	ND	2.25	113	2.00	4.71		
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75		
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34		
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93		
Total BTEX	<0.300	0.300	10/16/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	10/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 2 - 8' (H802939-10)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	10/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 3 - SURFACE (H802939-11)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4520	16.0	10/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	353	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	152	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 120 % 37.6-147

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

Received: 10/12/2018
 Reported: 10/17/2018
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/11/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP # 3 - 2' (H802939-12)

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	10/16/2018	ND	2.25	113	2.00	4.71		
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75		
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34		
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93		
Total BTEX	<0.300	0.300	10/16/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	10/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	13.6	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	19.8	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 99.6 % 37.6-147

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

Received: 10/12/2018
 Reported: 10/17/2018
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/11/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP # 3 - 4' (H802939-13)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2018	ND	2.25	113	2.00	4.71		
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75		
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34		
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93		
Total BTX	<0.300	0.300	10/16/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 97.6 % 37.6-147

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

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 3 - 6' (H802939-14)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 97.0 % 37.6-147

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

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 3 - 8' (H802939-15)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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

Received: 10/12/2018
 Reported: 10/17/2018
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/11/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP # 4 - SURFACE (H802939-16)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1460	16.0	10/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	882	50.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	289	50.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 99.4 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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

Received: 10/12/2018
 Reported: 10/17/2018
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/11/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP # 4 - 2' (H802939-17)

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	10/16/2018	ND	2.25	113	2.00	4.71		
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75		
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34		
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93		
Total BTEX	<0.300	0.300	10/16/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	10/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 98.0 % 41-142

Surrogate: 1-Chlorooctadecane 96.6 % 37.6-147

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

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 4 - 4' (H802939-18)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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

Received: 10/12/2018
 Reported: 10/17/2018
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/11/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP # 4 - 6' (H802939-19)

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	10/16/2018	ND	2.25	113	2.00	4.71		
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75		
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34		
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93		
Total BTEX	<0.300	0.300	10/16/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	10/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2018	ND	184	92.1	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	202	101	200	0.853	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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

Received: 10/12/2018
 Reported: 10/17/2018
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/11/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP # 4 - 8' (H802939-20)

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	10/16/2018	ND	2.25	113	2.00	4.71		
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75		
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34		
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93		
Total BTEX	<0.300	0.300	10/16/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	10/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2018	ND	185	92.4	200	1.79	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	184	92.1	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 98.9 % 37.6-147

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

Received: 10/12/2018
 Reported: 10/17/2018
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/11/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP # 5 - SURFACE (H802939-21)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3640	16.0	10/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2018	ND	185	92.4	200	1.79	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	184	92.1	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 89.3 % 41-142

Surrogate: 1-Chlorooctadecane 87.4 % 37.6-147

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

Received: 10/12/2018
 Reported: 10/17/2018
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/11/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP # 5 - 2' (H802939-22)

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	10/16/2018	ND	2.25	113	2.00	4.71	
Toluene*	<0.050	0.050	10/16/2018	ND	2.27	113	2.00	3.75	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.30	115	2.00	4.34	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.62	110	6.00	3.93	
Total BTEX	<0.300	0.300	10/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2018	ND	185	92.4	200	1.79	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	184	92.1	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 98.9 % 41-142

Surrogate: 1-Chlorooctadecane 97.9 % 37.6-147

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

Received:	10/12/2018	Sampling Date:	10/11/2018
Reported:	10/17/2018	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

Sample ID: SP # 5 - 4' (H802939-23)

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	10/17/2018	ND	2.20	110	2.00	3.48		
Toluene*	<0.050	0.050	10/17/2018	ND	2.20	110	2.00	2.44		
Ethylbenzene*	<0.050	0.050	10/17/2018	ND	2.26	113	2.00	2.87		
Total Xylenes*	<0.150	0.150	10/17/2018	ND	6.47	108	6.00	2.72		
Total BTEX	<0.300	0.300	10/17/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2018	ND	185	92.4	200	1.79	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	184	92.1	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 96.3 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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

Received: 10/12/2018
 Reported: 10/17/2018
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/11/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP # 5 - 6' (H802939-24)

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	10/17/2018	ND	2.20	110	2.00	3.48		
Toluene*	<0.050	0.050	10/17/2018	ND	2.20	110	2.00	2.44		
Ethylbenzene*	<0.050	0.050	10/17/2018	ND	2.26	113	2.00	2.87		
Total Xylenes*	<0.150	0.150	10/17/2018	ND	6.47	108	6.00	2.72		
Total BTEX	<0.300	0.300	10/17/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2018	ND	185	92.4	200	1.79	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	184	92.1	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 95.2 % 41-142

Surrogate: 1-Chlorooctadecane 93.9 % 37.6-147

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

Received: 10/12/2018
 Reported: 10/17/2018
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/11/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP # 5 - 8' (H802939-25)

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	10/17/2018	ND	2.20	110	2.00	3.48		
Toluene*	<0.050	0.050	10/17/2018	ND	2.20	110	2.00	2.44		
Ethylbenzene*	<0.050	0.050	10/17/2018	ND	2.26	113	2.00	2.87		
Total Xylenes*	<0.150	0.150	10/17/2018	ND	6.47	108	6.00	2.72		
Total BTEX	<0.300	0.300	10/17/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/17/2018	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2018	ND	185	92.4	200	1.79	
DRO >C10-C28*	<10.0	10.0	10/16/2018	ND	184	92.1	200	2.96	
EXT DRO >C28-C36	<10.0	10.0	10/16/2018	ND					

Surrogate: 1-Chlorooctane 94.8 % 41-142

Surrogate: 1-Chlorooctadecane 91.9 % 37.6-147

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

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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

A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL LABORATORIES

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

Page ____ of ____

BILL TO

ANALYSIS REQUEST

Company Name: Conoco Phillips

P.O. #:

Project Manager: Tracy WrightCompany: COPC

Address:

State: NM Zip: 88240

Attn:

City: Hobbs

Fax #:

Address:

Phone #: 575-631-9092

Project Owner:

City:

Project #:

State: Zip:Project Name: Warren Unit 40

Phone #:

Project Location:

Fax #:

Sample Name:

MATRIX

PRESERV.

SAMPLING

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H802939

SP #1 - surface

SP #1 - 2'

SP #1 - 4'

SP #1 - 6'

SP #1 - 8'

SP #2 - surface

SP #2 - 2'

SP #2 - 4'

SP #2 - 6'

SP #2 - 8'

SP #2 - 10'

SP #2 - 12'

SP #2 - 14'

SP #2 - 16'

SP #2 - 18'

SP #2 - 20'

SP #2 - 22'

SP #2 - 24'

SP #2 - 26'

SP #2 - 28'

SP #2 - 30'

SP #2 - 32'

SP #2 - 34'

SP #2 - 36'

SP #2 - 38'

SP #2 - 40'

SP #2 - 42'

SP #2 - 44'

SP #2 - 46'

SP #2 - 48'

SP #2 - 50'

SP #2 - 52'

SP #2 - 54'

SP #2 - 56'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

Chlorides

BTEX

Benzene

TPH - Extended

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising from this contract or for the amount paid by the client for the analysis of samples shall be limited to the amount paid by the client for the analysis of samples. Cardinal shall not be liable for consequential or incidental 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.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:

Date: 10-12-18 Received By: Monica L. L. L.

REMARKS:

Phone Result: ☐

No

Add'l Phone #:

Fax Result: ☐

No

Add'l Fax #:

Relinquished By:

Date:

Received By:

CHECKED BY: (Initials)

Temp.

Sample Condition

Cool ☐ Intact ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐

Delivered By: (Circle One)

Sample - UPS - Bus - Other:

-0.1c #47

Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐Yes ☐ No ☐

* Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

03 jo 62 ebgd

CARDINAL LABORATORIES

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

Page _____ of _____

ANALYSIS REQUEST

BILL TO

P.O. #:

Company: *COE*

Attn:

Address:

City: Zip:

State: Zip:

Phone #:

Fax #:

PRESERV.

MATRIX

CONTAINERS

Project Name:

Project Location:

Sample Name:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

(G)RAB OR (C)OMP.

GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER:ACID/BASE:
ICE / COOL
OTHER:

DATE

TIME

chlorides

BTEX

Benzene

TPH-Extended

H802959

SP#3-Surface

11

SP#3-2'

G

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

12

SP#3-4'

G

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

13

SP#3-6'

G

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

14

SP#3-8'

G

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

15

SP#4-Surface

G

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

16

SP#4-2'

G

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

17

SP#4-4'

G

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

18

SP#4-6'

G

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

19

SP#4-8'

G

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

20

SP#4-8'

G

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

21

SP#4-8'

G

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

22

SP#4-8'

G

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

23

SP#4-8'

G

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

24

SP#4-8'

G

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

25

SP#4-8'

G

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

26

SP#4-8'

G

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

27

SP#4-8'

G

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

28

SP#4-8'

G

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

29

SP#4-8'



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

February 27, 2019

JUSTIN WRIGHT

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: WARREN UNIT #40

Enclosed are the results of analyses for samples received by the laboratory on 02/20/19 11:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/20/2019	Sampling Date:	02/19/2019
Reported:	02/27/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: FLOOR #1 (H900656-01)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/23/2019	ND	1.90	94.8	2.00	0.515		
Toluene*	<0.050	0.050	02/23/2019	ND	1.93	96.4	2.00	1.57		
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	1.93	96.4	2.00	0.0211		
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.56	92.6	6.00	0.0857		
Total BTX	<0.300	0.300	02/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/22/2019	ND	432	108	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	02/22/2019	ND	205	103	200	1.97	
DRO >C10-C28*	48.7	10.0	02/22/2019	ND	212	106	200	3.67	
EXT DRO >C28-C36	41.3	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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

Received: 02/20/2019
 Reported: 02/27/2019
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 02/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FLOOR #2 (H900656-02)

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	02/23/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/23/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/22/2019	ND	432	108	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	02/22/2019	ND	205	103	200	1.97	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	212	106	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 95.6 % 41-142

Surrogate: 1-Chlorooctadecane 95.6 % 37.6-147

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

Received: 02/20/2019
 Reported: 02/27/2019
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 02/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FLOOR #3 (H900656-03)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/23/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.56	92.6	6.00	0.0857	
Total BTX	<0.300	0.300	02/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	02/22/2019	ND	432	108	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	02/22/2019	ND	205	103	200	1.97	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	212	106	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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

Received: 02/20/2019
 Reported: 02/27/2019
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 02/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FLOOR #4 (H900656-04)

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	02/23/2019	ND	1.86	93.0	2.00	3.58	QR-03	
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94		
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73		
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95		
Total BTEx	<0.300	0.300	02/23/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/22/2019	ND	432	108	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	02/22/2019	ND	205	103	200	1.97	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	212	106	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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

Received: 02/20/2019
 Reported: 02/27/2019
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 02/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FLOOR #5 (H900656-05)

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	02/23/2019	ND	1.86	93.0	2.00	3.58		
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94		
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73		
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95		
Total BTEx	<0.300	0.300	02/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/22/2019	ND	432	108	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	02/22/2019	ND	205	103	200	1.97	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	212	106	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 96.9 % 41-142

Surrogate: 1-Chlorooctadecane 97.9 % 37.6-147

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

Received: 02/20/2019
 Reported: 02/27/2019
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 02/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FLOOR #6 (H900656-06)

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	02/23/2019	ND	1.86	93.0	2.00	3.58	
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95	
Total BTEx	<0.300	0.300	02/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	02/22/2019	ND	432	108	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	02/22/2019	ND	187	93.4	200	2.16	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	214	107	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 94.5 % 41-142

Surrogate: 1-Chlorooctadecane 95.4 % 37.6-147

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

Received: 02/20/2019
 Reported: 02/27/2019
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 02/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FLOOR #7 (H900656-07)

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	02/23/2019	ND	1.86	93.0	2.00	3.58		
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94		
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73		
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95		
Total BTEX	<0.300	0.300	02/23/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/22/2019	ND	432	108	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	02/22/2019	ND	187	93.4	200	2.16	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	214	107	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 97.8 % 41-142

Surrogate: 1-Chlorooctadecane 98.1 % 37.6-147

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

Received: 02/20/2019
 Reported: 02/27/2019
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 02/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FLOOR #8 (H900656-08)

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	02/23/2019	ND	1.86	93.0	2.00	3.58	
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95	
Total BTEX	<0.300	0.300	02/23/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/22/2019	ND	432	108	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	02/22/2019	ND	187	93.4	200	2.16	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	214	107	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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

Received: 02/20/2019
 Reported: 02/27/2019
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 02/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FLOOR #9 (H900656-09)

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	02/23/2019	ND	1.86	93.0	2.00	3.58	
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95	
Total BTEX	<0.300	0.300	02/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1180	16.0	02/22/2019	ND	432	108	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	02/22/2019	ND	187	93.4	200	2.16	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	214	107	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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

Received: 02/20/2019
 Reported: 02/27/2019
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 02/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FLOOR #10 (H900656-10)

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	02/23/2019	ND	1.86	93.0	2.00	3.58		
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94		
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73		
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95		
Total BTEx	<0.300	0.300	02/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	02/22/2019	ND	432	108	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	02/22/2019	ND	187	93.4	200	2.16	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	214	107	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 96.3 % 41-142

Surrogate: 1-Chlorooctadecane 95.4 % 37.6-147

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

Received: 02/20/2019
 Reported: 02/27/2019
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 02/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: FLOOR #11 (H900656-11)

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	02/23/2019	ND	1.86	93.0	2.00	3.58		
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94		
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73		
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95		
Total BTEX	<0.300	0.300	02/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/22/2019	ND	432	108	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	02/22/2019	ND	187	93.4	200	2.16	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	214	107	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 98.2 % 41-142

Surrogate: 1-Chlorooctadecane 98.4 % 37.6-147

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

Received: 02/20/2019
 Reported: 02/27/2019
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 02/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WALL #1 (H900656-12)

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	02/23/2019	ND	1.86	93.0	2.00	3.58	
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95	
Total BTEX	<0.300	0.300	02/23/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/22/2019	ND	432	108	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	02/22/2019	ND	187	93.4	200	2.16	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	214	107	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 87.0 % 41-142

Surrogate: 1-Chlorooctadecane 86.8 % 37.6-147

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

Received: 02/20/2019
 Reported: 02/27/2019
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 02/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WALL #2 (H900656-13)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/23/2019	ND	1.86	93.0	2.00	3.58		
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94		
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73		
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95		
Total BTX	<0.300	0.300	02/23/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/22/2019	ND	432	108	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	02/22/2019	ND	208	104	200	2.47	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	231	115	200	7.19	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 96.1 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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

Received: 02/20/2019
 Reported: 02/27/2019
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 02/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WALL #3 (H900656-14)

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	02/23/2019	ND	1.86	93.0	2.00	3.58		
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94		
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73		
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95		
Total BTEx	<0.300	0.300	02/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	02/22/2019	ND	432	108	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	02/22/2019	ND	187	93.4	200	2.16	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	214	107	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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

Received: 02/20/2019
 Reported: 02/27/2019
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 02/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WALL #4 (H900656-15)

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	02/23/2019	ND	1.86	93.0	2.00	3.58		
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94		
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73		
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95		
Total BTEX	<0.300	0.300	02/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1580	16.0	02/22/2019	ND	432	108	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	02/22/2019	ND	187	93.4	200	2.16	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	214	107	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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

Received: 02/20/2019
 Reported: 02/27/2019
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 02/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WALL #5 (H900656-16)

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	02/23/2019	ND	1.86	93.0	2.00	3.58	
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95	
Total BTEX	<0.300	0.300	02/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	02/22/2019	ND	432	108	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	02/22/2019	ND	187	93.4	200	2.16	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	214	107	200	14.2	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 88.1 % 41-142

Surrogate: 1-Chlorooctadecane 88.0 % 37.6-147

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

Received: 02/20/2019
 Reported: 02/27/2019
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 02/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WALL #6 (H900656-17)

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	02/23/2019	ND	1.86	93.0	2.00	3.58	
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95	
Total BTEX	<0.300	0.300	02/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/22/2019	ND	416	104	400	3.92	QR-03
TPH 8015M		mg/kg		Analyzed By: MS					

GRO C6-C10*	<10.0	10.0	02/22/2019	ND	208	104	200	2.47	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	231	115	200	7.19	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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

Received: 02/20/2019
 Reported: 02/27/2019
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 02/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WALL #7 (H900656-18)

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	02/23/2019	ND	1.86	93.0	2.00	3.58	
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94	
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95	
Total BTEx	<0.300	0.300	02/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/22/2019	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2019	ND	208	104	200	2.47	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	231	115	200	7.19	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 90.0 % 41-142

Surrogate: 1-Chlorooctadecane 91.7 % 37.6-147

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

Received: 02/20/2019
 Reported: 02/27/2019
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 02/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WALL #8 (H900656-19)

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	02/23/2019	ND	1.86	93.0	2.00	3.58		
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94		
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73		
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95		
Total BTEx	<0.300	0.300	02/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/22/2019	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2019	ND	208	104	200	2.47	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	231	115	200	7.19	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					

Surrogate: 1-Chlorooctane 87.0 % 41-142

Surrogate: 1-Chlorooctadecane 86.8 % 37.6-147

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

Received: 02/20/2019
 Reported: 02/27/2019
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 02/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WALL #9 (H900656-20)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/23/2019	ND	1.86	93.0	2.00	3.58		
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94		
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73		
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95		
Total BTX	<0.300	0.300	02/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/22/2019	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2019	ND	208	104	200	2.47	
DRO >C10-C28*	<10.0	10.0	02/23/2019	ND	231	115	200	7.19	
EXT DRO >C28-C36	<10.0	10.0	02/23/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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

Received: 02/20/2019
 Reported: 02/27/2019
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 02/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WALL #10 (H900656-21)

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	02/23/2019	ND	1.86	93.0	2.00	3.58		
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94		
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73		
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95		
Total BTEx	<0.300	0.300	02/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/22/2019	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2019	ND	208	104	200	2.47	
DRO >C10-C28*	<10.0	10.0	02/23/2019	ND	231	115	200	7.19	
EXT DRO >C28-C36	<10.0	10.0	02/23/2019	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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

Received: 02/20/2019
 Reported: 02/27/2019
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 02/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WALL #11 (H900656-22)

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	02/23/2019	ND	1.86	93.0	2.00	3.58		
Toluene*	<0.050	0.050	02/23/2019	ND	1.97	98.7	2.00	2.94		
Ethylbenzene*	<0.050	0.050	02/23/2019	ND	2.00	100	2.00	2.73		
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.79	96.4	6.00	2.95		
Total BTEX	<0.300	0.300	02/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/22/2019	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2019	ND	208	104	200	2.47	
DRO >C10-C28*	<10.0	10.0	02/23/2019	ND	231	115	200	7.19	
EXT DRO >C28-C36	<10.0	10.0	02/23/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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

Received: 02/20/2019
 Reported: 02/27/2019
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 02/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WALL #12 (H900656-23)

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	02/25/2019	ND	2.11	106	2.00	0.366	
Toluene*	<0.050	0.050	02/25/2019	ND	1.99	99.4	2.00	1.19	
Ethylbenzene*	<0.050	0.050	02/25/2019	ND	2.06	103	2.00	1.93	
Total Xylenes*	<0.150	0.150	02/25/2019	ND	6.38	106	6.00	1.61	
Total BTEx	<0.300	0.300	02/25/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/22/2019	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2019	ND	208	104	200	2.47	
DRO >C10-C28*	<10.0	10.0	02/23/2019	ND	231	115	200	7.19	
EXT DRO >C28-C36	<10.0	10.0	02/23/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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

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

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.

A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

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

Page ____ of ____

Company Name: <i>Conaco Phillips</i> Project Manager: <i>Justin Wright</i> Address: City: <i>Hobbs</i> State: <i>NM</i> Zip: Phone #: <i>575-631-9098</i> Fax #: Project #: Project Name: <i>Warren Unit 40</i> Project Location: <i>Lea County, NM</i> Sampler Name: <i>Justin Wright</i>				BILL TO P.O. #: Company: <i>Conaco Phillips</i> Attn: Address: City: State: <i>Zip:</i> Phone #: Fax #:				ANALYSIS REQUEST															
FOR LAB USE ONLY				MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				PRESERV. ACID/BASE: ICE / COOL OTHER:				SAMPLING DATE TIME											
Lab I.D. Sample I.D.				(G)RAB OR (C)OMP. # CONTAINERS				DATE TIME				Chlorides TPH BTEX TPH-Extended											
H900656				F1001 #1 F1001 #2 F1001 #3 F1001 #4 F1001 #5 F1001 #6 F1001 #7 F1001 #8 F1001 #9 F1001 #10				G G G G G G G G G				✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓				2-19 10:35 2-19 10:38 2-19 10:42 2-19 10:45 2-19 10:49 2-19 10:52 2-19 10:54 2-19 10:58 2-19 11:01 2-19 11:05				✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓			
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.				Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.				Phone Result: <input type="checkbox"/> No <input checked="" type="checkbox"/> Add'l Phone #: Fax Result: <input type="checkbox"/> No <input checked="" type="checkbox"/> Add'l Fax #: REMARKS:															
Sampler Refracted: <i>Justin Wright</i> Date: <i>2-10-19</i> Received By: <i>Justin Wright</i> Time: <i>11:55</i>				Relinquished By: <i>Justin Wright</i> Date: <i>2-10-19</i> Received By: <i>Justin Wright</i> Time: <i>11:55</i>				Delivered By: (Circle One) <i>Temp.</i> Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Checker: <i>Justin Wright</i>				Checked By: <i>Justin Wright</i>											

+ Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



CARDINAL LABORATORIES

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

Page ____ of ____

Company Name: <u>Conce Phillips</u> Project Manager: <u>Justin Wright</u> Address: _____ City: <u>Hobbs</u> State: <u>NM</u> Zip: _____ Phone #: <u>575-631-9082</u> Fax #: _____ Project #: _____ Project Owner: <u>CDPC</u> Project Name: <u>Warren Unit #10</u> Project Location: <u>Lea County, NM</u> Sampler Name: <u>Justin Wright</u>				BILL TO P.O. #: _____ Company: <u>CDPC</u> Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____			
FOR LAB USE ONLY Lab I.D. _____ Sample I.D. _____ H9006540 11 Floor #11				(G)RAB OR (C)OMP. # CONTAINERS MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: _____ ACID/BASE: ICE / COOL OTHER: _____ PRESERV. _____ SAMPLING _____			
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. 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.				Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.			
Sampler Relinquished By: <u>[Signature]</u> Date: _____ Received By: <u>[Signature]</u> Relinquished By: <u>[Signature]</u> Date: <u>2-20-19</u> Received By: <u>[Signature]</u> Time: _____ Time: <u>11:53</u>				Phone Result: <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ Fax Result: <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #: _____ REMARKS: _____			
Delivered By: (Circle One) <u>Temp.</u> Sample Condition <u>Intact</u> CHECKED BY: <u>[Signature]</u> Cooler <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Sampler - UPS - Bus - Other: <u>-3.10/1 #97</u>				Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.			



CARDINAL LABORATORIES

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

Page ____ of ____

Company Name: <u>Conoco Phillips</u> Project Manager: <u>Justin Wright</u> Address: _____ City: <u>Hobbs</u> State: <u>NM</u> Zip: _____ Phone #: <u>575-631-8088</u> Fax #: _____ Project #: _____ Project Name: <u>Warren Unit 4D</u> Project Location: <u>Lea County, NM</u> Sampler Name: <u>Justin Wright</u> <small>FOR LAB USE ONLY</small>				P.O. #: _____ Company: <u>COPC</u> Attn: _____ Address: _____ City: _____ State: _____ Phone #: _____ Fax #: _____			
Lab I.D. <u>H000654</u> Sample I.D. _____ Relinquished By: _____ Date: <u>2-20-19</u> Received By: <u>John Munson</u> Time: <u>11:55</u>				DELIVERED BY: <u>Circle One</u> Delivered By: (Circle One) <u>-3.10/497</u> Sampler - UPS - Bus - Other: _____ Temp. _____ Sample Condition _____ <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: <u>[Signature]</u> (Initials)			
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.				TERMS AND CONDITIONS: Invoices will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.			
REMARKS: _____ Phone Result: <input type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> No Add'l Fax #: _____				ANALYSIS REQUEST			
Matrix: (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE TIME				SAMPLING			
<u>20</u> <u>4611 #9</u> <u>G</u> <u>✓</u> <u>2-19-19</u> <u>11:39</u> <u>✓</u> <u>Chlorides</u>				<u>21</u> <u>4611 #10</u> <u>G</u> <u>✓</u> <u>2-19</u> <u>11:44</u> <u>✓</u> <u>TPH</u>			
<u>22</u> <u>4611 #11</u> <u>G</u> <u>✓</u> <u>2-19</u> <u>11:47</u> <u>✓</u> <u>BTEX</u>				<u>23</u> <u>4611 #12</u> <u>G</u> <u>✓</u> <u>2-19</u> <u>11:55</u> <u>✓</u> <u>TPH-Extended</u>			



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

April 03, 2019

JUSTIN WRIGHT

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: WARREN UNIT #40

Enclosed are the results of analyses for samples received by the laboratory on 03/28/19 12:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/28/2019	Sampling Date:	03/27/2019
Reported:	04/03/2019	Sampling Type:	Soil
Project Name:	WARREN UNIT #40	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	HOBBS		

Sample ID: WARREN UNIT #40 WALL #1 (H901169-01)

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	03/30/2019	ND	2.13	107	2.00	3.15	
Toluene*	<0.050	0.050	03/30/2019	ND	2.01	100	2.00	2.84	
Ethylbenzene*	<0.050	0.050	03/30/2019	ND	2.09	104	2.00	1.99	
Total Xylenes*	<0.150	0.150	03/30/2019	ND	6.34	106	6.00	2.45	
Total BTEX	<0.300	0.300	03/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/29/2019	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	03/29/2019	ND	206	103	200	2.45	
DRO >C10-C28*	<10.0	10.0	03/29/2019	ND	188	94.1	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	03/29/2019	ND					

Surrogate: 1-Chlorooctane 80.1 % 41-142

Surrogate: 1-Chlorooctadecane 76.0 % 37.6-147

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

Received: 03/28/2019
 Reported: 04/03/2019
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: HOBBS

Sampling Date: 03/27/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WARREN UNIT #40 WALL #2 (H901169-02)

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	03/30/2019	ND	2.13	107	2.00	3.15	
Toluene*	<0.050	0.050	03/30/2019	ND	2.01	100	2.00	2.84	
Ethylbenzene*	<0.050	0.050	03/30/2019	ND	2.09	104	2.00	1.99	
Total Xylenes*	<0.150	0.150	03/30/2019	ND	6.34	106	6.00	2.45	
Total BTEX	<0.300	0.300	03/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/29/2019	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	03/29/2019	ND	206	103	200	2.45	
DRO >C10-C28*	<10.0	10.0	03/29/2019	ND	188	94.1	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	03/29/2019	ND					

Surrogate: 1-Chlorooctane 81.6 % 41-142

Surrogate: 1-Chlorooctadecane 78.7 % 37.6-147

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

Received: 03/28/2019
 Reported: 04/03/2019
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: HOBBS

Sampling Date: 03/27/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WARREN UNIT #40 FLOOR #1 (H901169-03)

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	03/30/2019	ND	2.13	107	2.00	3.15	
Toluene*	<0.050	0.050	03/30/2019	ND	2.01	100	2.00	2.84	
Ethylbenzene*	<0.050	0.050	03/30/2019	ND	2.09	104	2.00	1.99	
Total Xylenes*	<0.150	0.150	03/30/2019	ND	6.34	106	6.00	2.45	
Total BTEx	<0.300	0.300	03/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/29/2019	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	03/29/2019	ND	206	103	200	2.45	
DRO >C10-C28*	<10.0	10.0	03/29/2019	ND	188	94.1	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	03/29/2019	ND					

Surrogate: 1-Chlorooctane 79.0 % 41-142

Surrogate: 1-Chlorooctadecane 76.0 % 37.6-147

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

Received: 03/28/2019
 Reported: 04/03/2019
 Project Name: WARREN UNIT #40
 Project Number: NONE GIVEN
 Project Location: HOBBS

Sampling Date: 03/27/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WARREN UNIT #40 FLOOR #2 (H901169-04)

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	03/30/2019	ND	2.13	107	2.00	3.15	
Toluene*	<0.050	0.050	03/30/2019	ND	2.01	100	2.00	2.84	
Ethylbenzene*	<0.050	0.050	03/30/2019	ND	2.09	104	2.00	1.99	
Total Xylenes*	<0.150	0.150	03/30/2019	ND	6.34	106	6.00	2.45	
Total BTEX	<0.300	0.300	03/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/29/2019	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	03/29/2019	ND	206	103	200	2.45	
DRO >C10-C28*	<10.0	10.0	03/29/2019	ND	188	94.1	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	03/29/2019	ND					

Surrogate: 1-Chlorooctane 81.5 % 41-142

Surrogate: 1-Chlorooctadecane 78.5 % 37.6-147

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

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

Celey D. Keene, Lab Director/Quality Manager

ARDINAL LABORATORIES

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

Page ____ of ____

Company Name: <u>Conoco Phillips</u>		P.O. #:	
Project Manager: <u>Justin Wright</u>		Company: <u>Conoco Phillips</u>	
Address:		Attn: <u>Duke</u>	
City:	State:	Address:	
Phone #:	Fax #:	City:	
Project #:	Project Owner:	State:	Zip:
Project Name: <u>Wayen Court H 44</u>		Phone #:	
Project Location: <u>Hobbs</u>		Fax #:	
Sampler Name: <u>Taylor</u>			

Lab I.D. Sample I.D.

H901169
1 Chertan Lot 40 Well #1
2 " Floor #1
3 " Floor #2
4 " Floor #2

	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER:	DATE	TIME	ANALYSIS REQUEST
					3/27/17	9:00am	<u>Chertan</u>
					3/27/17	9:00am	<u>2- Tex</u>
					3/27/17	9:10am	<u>TPH</u>
					3/27/17	9:20am	

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.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished: 3/28/17 Received By: Wayen Court
 Date: 3/28/17 Time: 12:15
 Relinquished By: Wayen Court Received By: Wayen Court

Delivered By: (Circle One) Temp. Sample Condition
 Cooler ☒ Yes ☐ No
 Intact ☒ Yes ☐ No
 Damaged ☐ Yes ☐ No
 Checked By: Wayen Court

* Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

ATTACHMENT D

Laboratory Analytical Results



TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View northwest over formerly impacted surface area.	1
	SITE NAME	Warren Unit B/T WF #40 Release	6/12/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View northeast over formerly impacted surface area at lease pad.	2
	SITE NAME	Warren Unit B/T WF #40 Release	6/12/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View over formerly impacted surface area and injection line, facing southeast.	3
	SITE NAME	Warren Unit B/T WF #40 Release	6/12/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View of the former release area and wellhead, facing southwest.	4
	SITE NAME	Warren Unit B/T WF #40 Release	6/12/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View from the east side of the former release area, facing northwest.	5
	SITE NAME	Warren Unit B/T WF #40 Release	6/12/2020

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
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 201804

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 201804
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

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