



March 25, 2020

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

**Subject: Closure Letter Report
ConocoPhillips
MCA Unit 67 Release
Section 21, Township 17 South, Range 32 East
Lea County, New Mexico
1RP-4652**

Mr. Billings:

On behalf of ConocoPhillips, Tetra Tech, Inc. (Tetra Tech) submits the following Closure Report for review. The ConocoPhillips (COP) MCA Unit 67 well is located approximately 2.6 miles southwest of Maljamar in Lea County, New Mexico (Figure 1). The well listed in the C-141 is the MCA Unit #067, with API # 30-025-00610 and located in Section 21, Township 17 South, Range 32 East. The well coordinates are 32.8182831°, -103.7779236°. According to the NMOCD, the well has been plugged and the site released.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Attachment A), on March 20, 2017, the onsite Multi-Skill Operator (MSO) was informed of a leak at the MCA Unit 67 injection well. When he arrived on location, he discovered a hole in the casing that released 58.5 barrels (bbls) of produced water, of which 55 bbls were recovered. The impacted area was reported as Area 1 – 180' x 150' x 2" deep, Area 2 – 180' x 6' x 1" deep, and Area 3 – 60' x 45' x 3" deep.

SITE CHARACTERIZATION

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

Based on data from the New Mexico Office of the State Engineer (NMOSE), there are two water wells located in Section 21, Township 17 South, and Range 32 East. The average depth to groundwater is 92 feet. The site characterization data is shown in Attachment B.

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

CONSTITUENT	RRAL
Chloride (0-4 ft bgs)	600 mg/kg
Chloride (>4 ft bgs)	10,000 mg/kg
TPH	2,500 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

TETRA TECH

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

Bradford Billings
NMOCD
March 25, 2020

INITIAL RESPONSE

In accordance with 19.15.29.8. B. (4) NMAC that states “the responsible party may commence remediation immediately after discovery of a release”, ConocoPhillips elected to begin remediation of the impacted area. The footprint of the release was excavated to approximately 1-foot below ground surface (bgs) to remove the visually impacted soils (Figure 1). The lease road was scraped to six inches. Impacted soil was disposed of in a permitted landfill facility.

SITE ASSESSMENT SUMMARY

Post-initial response, per COP, soil assessment activities for the Site were conducted on February 9, 2018 at five locations (SP-1 through SP-5) within the previously excavated areas of the release footprint. Seven (7) soil samples were collected from each boring location and analyzed for TPH by Environmental Protection Agency (EPA) Method 8015M, BTEX by EPA Method 8021B, and chlorides by EPA Method SM4500Cl-B. See Figure 1 for sample locations.

Thus, a total of thirty-five (35) samples were submitted to Cardinal Laboratories in Hobbs, NM on February 9, 2018. The samples were analyzed for TPH by Environmental Protection Agency (EPA) Method 8015M, BTEX by EPA Method 8021B, and chlorides by EPA Method SM4500Cl-B. Copies of the laboratory analytical report and chain-of-custody documentation are included in Attachment C.

Analytical results for chloride exceeded the RRAL of 600 mg/kg at 1 ft bgs at the S#2 and S#4 boring locations. The remainder of the analytical results associated with the upper four feet were below the established RRALs for chloride. All analytical results from the assessment sampling event were below the RRALs for TPH and BTEX. Soil assessment results are summarized in Table 1.

CORRECTIVE ACTION PLAN / REMEDIAL ACTIVITIES

A Corrective Action Plan (CAP) was developed for the Site by COP, submitted to NMOCD and approved by the NMOCD on April 2, 2018 (Attachment C). According to the approved CAP, proposed remedial activities involved excavating the impacted areas of the well pad to various depths, based on the assessment data. Figure 2 indicates the individual areas and the depths of excavation.

To determine the success of the remedial activities, confirmation sampling was conducted on March 14, 2018 at 13 sidewall locations (WALL #1 through WALL #13). Additionally, two floor sample locations (Floor #1 and Floor #2) were collected for confirmation, as well as three stockpile samples, as described in the approved CAP. Samples were submitted to Cardinal Laboratories to be analyzed for chlorides by EPA Method SM4500Cl-B. Given that the analytical results associated with the assessment sampling was non-detect for TPH and BTEX, those constituents were not included in the laboratory analysis. See Figure 2 for sample locations. Once excavation was complete, a 40-mil liner was properly emplaced in the central portion of the release area, as proposed in the CAP, and indicated in Figure 2.

Analytical results from the March 14, 2018 confirmation sampling event were below the established RRALs for all constituents in all sample locations except at WALL #1, which slightly exceeded the chloride RRAL of 600 mg/kg in the upper 4 feet (Table 2). In this case, given the depth to groundwater in the area and that the vertical extent of contamination is fully delineated, the remaining contaminants will not pose a threat to present or foreseeable beneficial use of fresh water, public health and the environment.

CONCLUSION

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

TETRA TECH

Bradford Billings
NMOCD
March 25, 2020

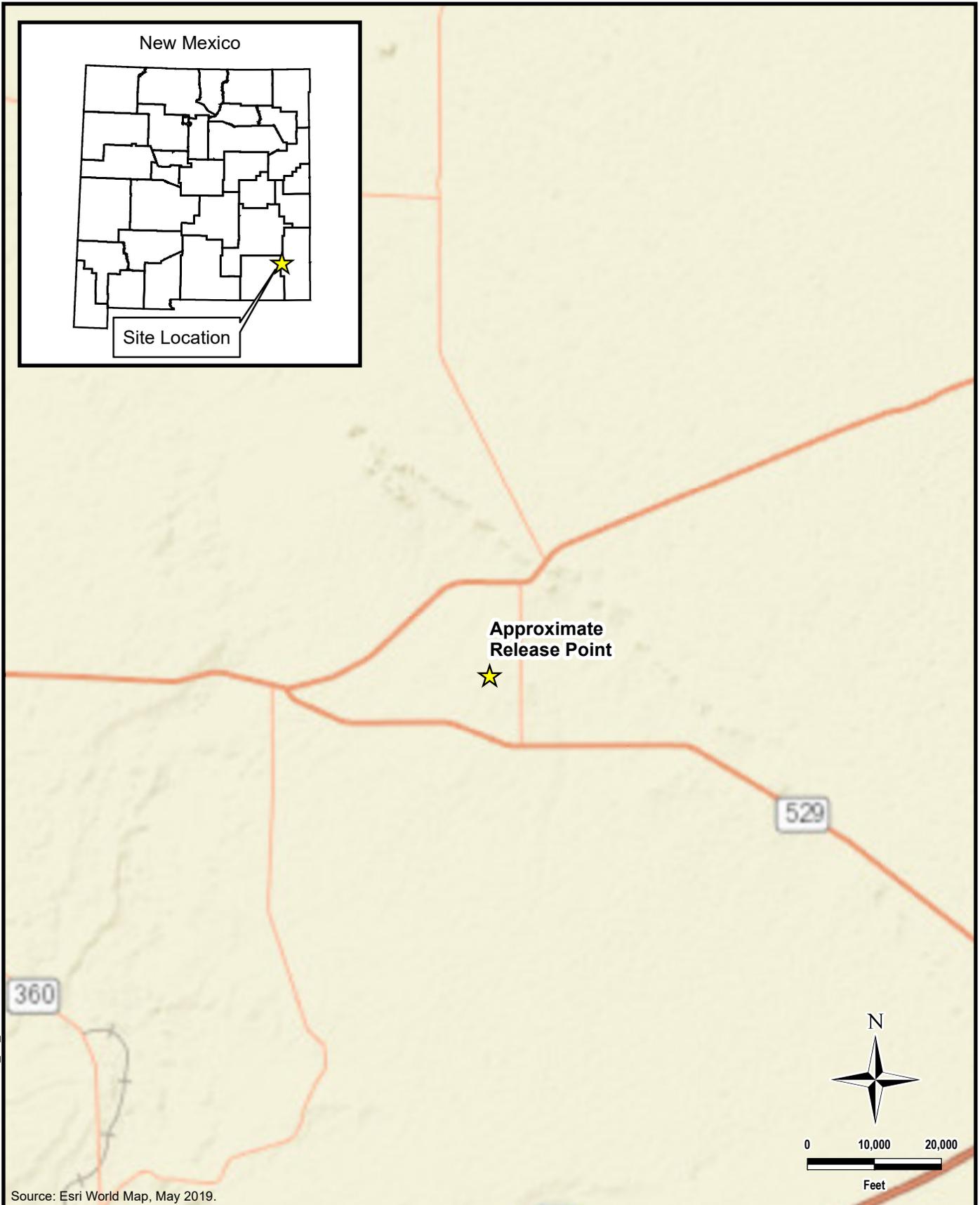
Should you have any questions or comments regarding this report, please do not hesitate to contact me by telephone at 512-338-2861 or by email at christian.llull@tetrattech.com.

Sincerely,



Christian M. Llull
Project Manager
Tetra Tech, Inc.

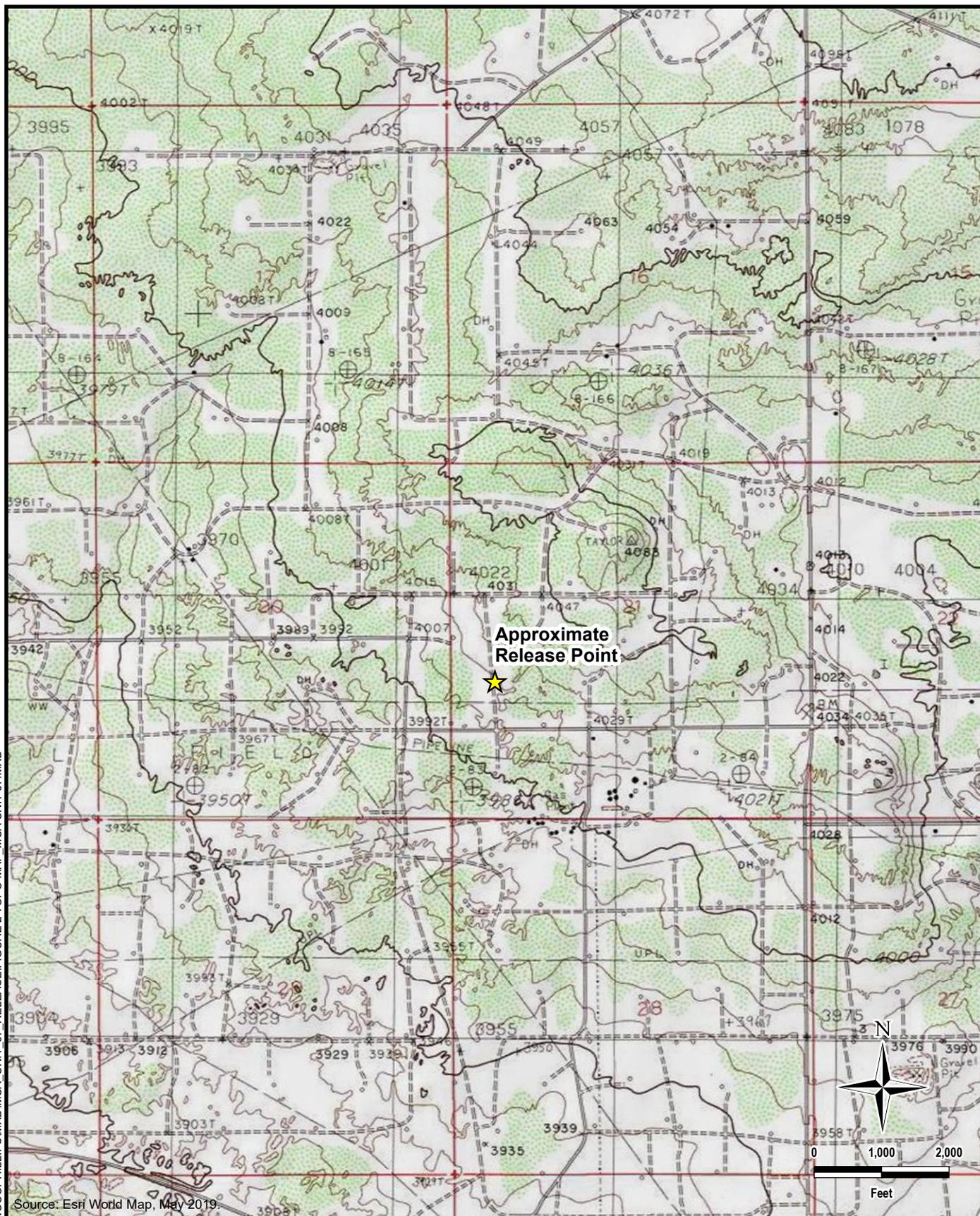
FIGURES



Source: Esri World Map, May 2019.

\\TTS134FS1\SUP-GIS\ARCP\J2\NERT\MXD\FIGURE1_TS_LOCATION.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-4652 (32.8182831°, -103.7779236°) LEA COUNTY, NEW MEXICO	PROJECT NO.: 212C-MD-01796-20 DATE: MARCH 24, 2020 DESIGNED BY: AAM
	MCA UNIT 67 RELEASE OVERVIEW MAP	Figure No. 1



DOCUMENT PATH: D:\CONOCOPHILLIPS\MCA_UNIT_67_RELEASE\FIGURE 2 TOPO MAP_MCA_UNIT_67.MXD

Source: Esri World Map, May 2019



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CONOCOPHILLIPS

1RP-4652
 (32.8182831°, -103.7779236°)
 LEA COUNTY, NEW MEXICO

**MCA UNIT 67 RELEASE
 TOPOGRAPHIC MAP**

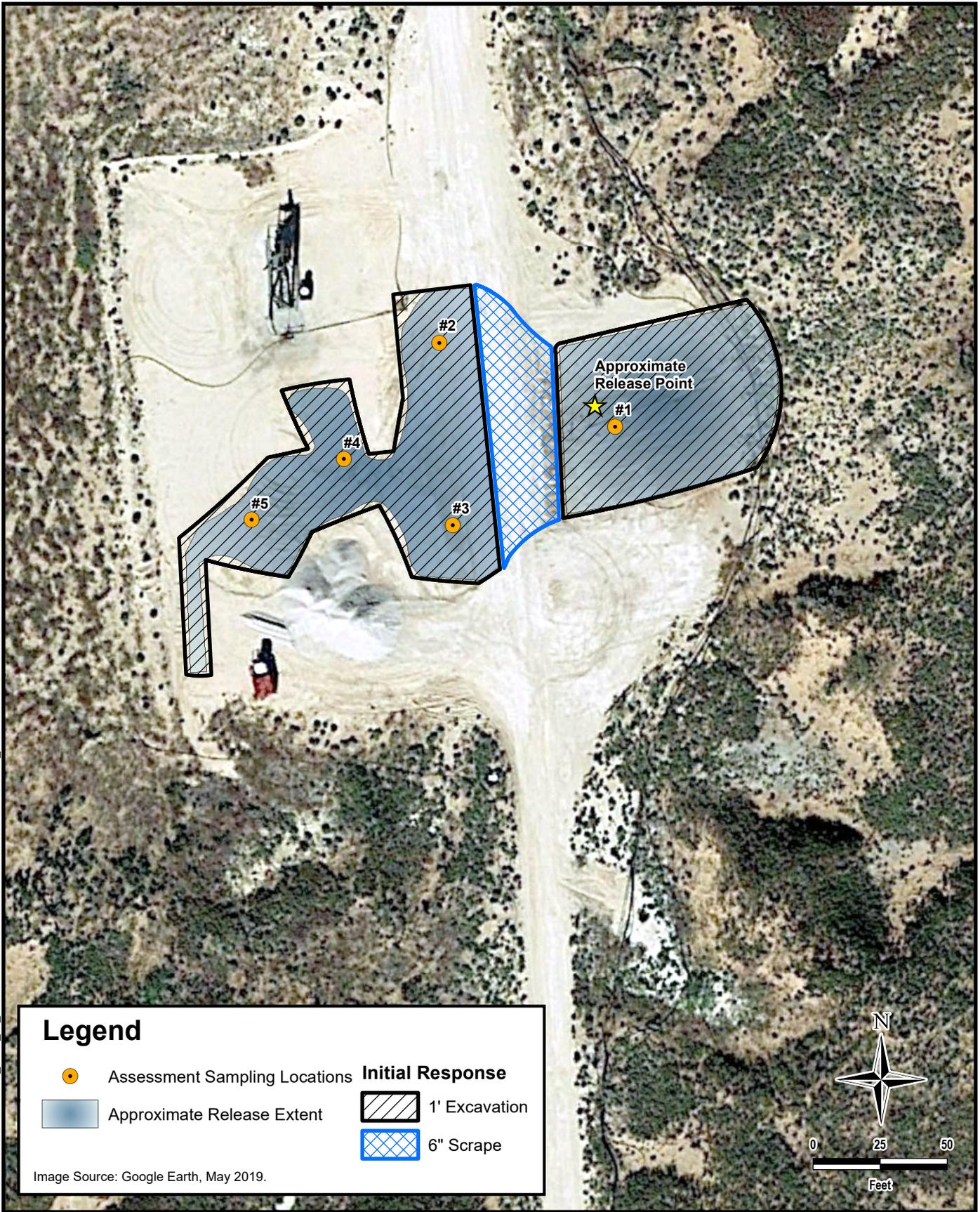
PROJECT NO.: 212C-MD-01796-20

DATE: MARCH 24, 2020

DESIGNED BY: AAM

Figure No.

2



DOCUMENT PATH: D:\CONOCOPHILLIPS\MCA_UNIT_67_RELEASE\FIGURE 3 APPROX RELEASE EXTENT_MCA UNIT 67.MXD

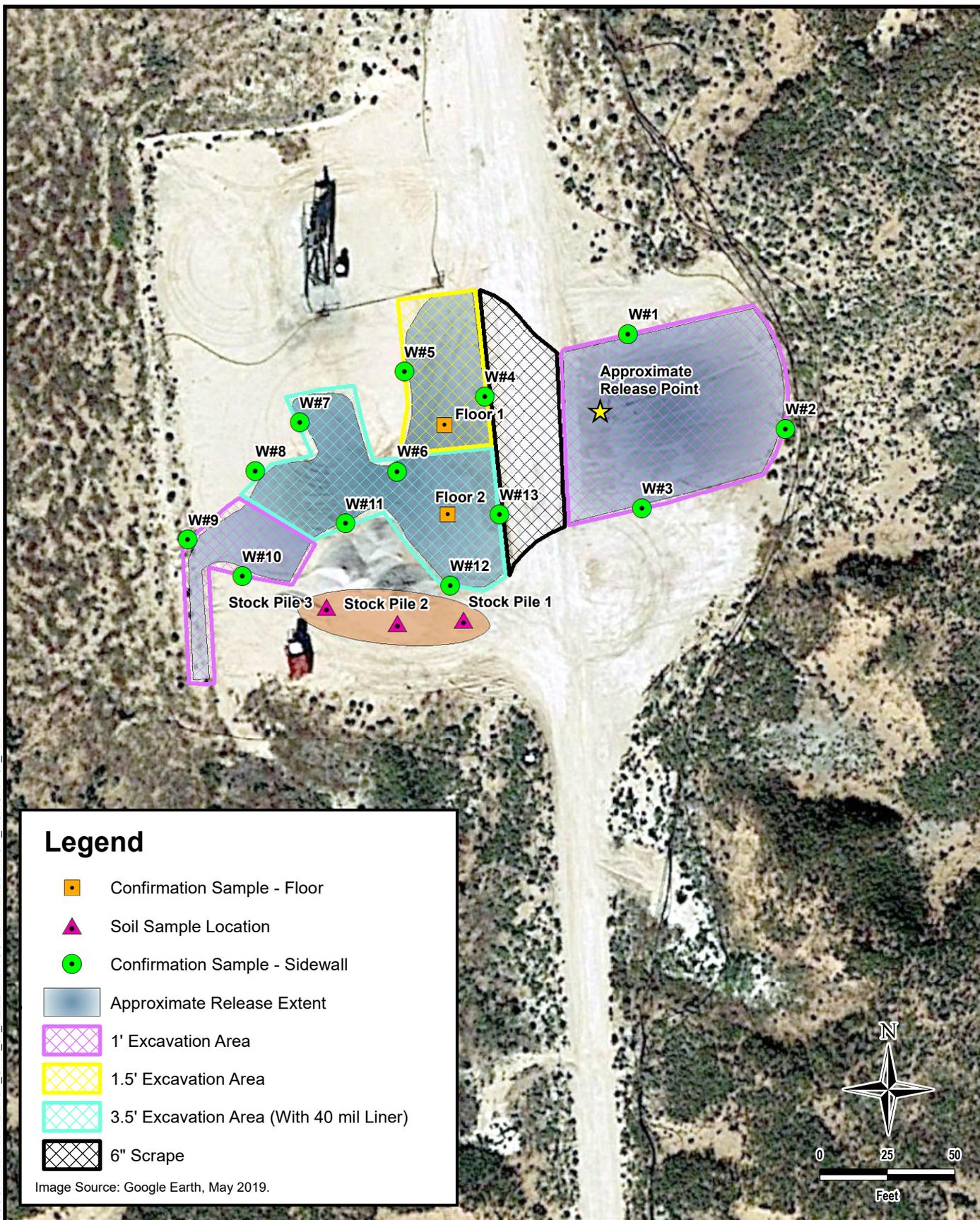
Legend

-  Assessment Sampling Locations
-  Approximate Release Extent
-  1' Excavation
-  6" Scrape

Initial Response

Image Source: Google Earth, May 2019.

 <p>www.tetrattech.com 901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559 Fax: (432) 682-3946</p>	<p>CONOCOPHILLIPS</p> <p>1RP-4652 (32.8182831°, -103.7779236°) LEA COUNTY, NEW MEXICO</p>	<p>PROJECT NO.: 212C-MD-01796-20</p>
	<p>MCA UNIT 67 RELEASE INITIAL RESPONSE AND SITE ASSESSMENT MAP</p>	<p>DATE: MARCH 24, 2020</p> <p>DESIGNED BY: AAM</p>
		<p>Figure No. 3</p>



DOCUMENT PATH: D:\CONOCOPHILLIPS\MCA_UNIT_67_RELEASE\FIGURE 4 REMEDIATION_MCA UNIT 67_V2.MXD

Legend

- Confirmation Sample - Floor
- Soil Sample Location
- Confirmation Sample - Sidewall
- Approximate Release Extent
- 1' Excavation Area
- 1.5' Excavation Area
- 3.5' Excavation Area (With 40 mil Liner)
- 6" Scrape

Image Source: Google Earth, May 2019.



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CONOCOPHILLIPS

1RP-4652
 (32.8182831°, -103.7779236°)
 LEA COUNTY, NEW MEXICO

**MCA UNIT 67 RELEASE
 REMEDIATION EXTENTS AND CONFIRMATION SAMPLING LOCATIONS**

PROJECT NO.: 212C-MD-01796-20

DATE: MARCH 24, 2020

DESIGNED BY: AAM

Figure No.

4

TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT - 1RP-4652
CONOCOPHILLIPS
MCA #67
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²									TPH ³							
					Benzene		Toluene		Ethylbenzene		Xylene		Total BTEX		GRO		DRO		EXT DRO		Total TPH
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
SP#1-1'	02/09/18	1	192		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 50.0		< 50.0		< 50.0		-
SP#1-3'	02/09/18	3	96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 50.0		< 50.0	QM-07	< 50.0		-
SP#1-5'	02/09/18	5	272		NA		NA		NA		NA		NA		NA		NA		NA		-
SP#1-7'	02/09/18	7	192		NA		NA		NA		NA		NA		NA		NA		NA		-
SP#1-9'	02/09/18	9	240		NA		NA		NA		NA		NA		NA		NA		NA		-
SP#1-11'	02/09/18	11	128		NA		NA		NA		NA		NA		NA		NA		NA		-
SP#1-13'	02/09/18	13	192		NA		NA		NA		NA		NA		NA		NA		NA		-
SP#2-1'	02/09/18	1	16000		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SP#2-3'	02/09/18	3	112		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SP#2-5'	02/09/18	5	112		NA		NA		NA		NA		NA		NA		NA		NA		-
SP#2-7'	02/09/18	7	48.0		NA		NA		NA		NA		NA		NA		NA		NA		-
SP#2-9'	02/09/18	9	176		NA		NA		NA		NA		NA		NA		NA		NA		-
SP#2-11'	02/09/18	11	64.0		NA		NA		NA		NA		NA		NA		NA		NA		-
SP#2-13'	02/09/18	13	16.0		NA		NA		NA		NA		NA		NA		NA		NA		-
SP#3-1'	02/09/18	1	128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SP#3-3'	02/09/18	3	96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SP#3-5'	02/09/18	5	208		NA		NA		NA		NA		NA		NA		NA		NA		-
SP#3-7'	02/09/18	7	848		NA		NA		NA		NA		NA		NA		NA		NA		-
SP#3-9'	02/09/18	9	720		NA		NA		NA		NA		NA		NA		NA		NA		-
SP#3-11'	02/09/18	11	240		NA		NA		NA		NA		NA		NA		NA		NA		-
SP#3-13'	02/09/18	13	320		NA		NA		NA		NA		NA		NA		NA		NA		-
SP#4-1'	02/09/18	1	3360		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SP#4-3'	02/09/18	3	32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SP#4-5'	02/09/18	5	320		NA		NA		NA		NA		NA		NA		NA		NA		-
SP#4-7'	02/09/18	7	784		NA		NA		NA		NA		NA		NA		NA		NA		-
SP#4-9'	02/09/18	9	592		NA		NA		NA		NA		NA		NA		NA		NA		-
SP#4-11'	02/09/18	11	352		NA		NA		NA		NA		NA		NA		NA		NA		-
SP#4-13'	02/09/18	13	288		NA		NA		NA		NA		NA		NA		NA		NA		-
SP#5-1'	02/09/18	1	400		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SP#5-3'	02/09/18	3	368		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
SP#5-5'	02/09/18	5	128		NA		NA		NA		NA		NA		NA		NA		NA		-
SP#5-7'	02/09/18	7	96.0		NA		NA		NA		NA		NA		NA		NA		NA		-
SP#5-9'	02/09/18	9	112		NA		NA		NA		NA		NA		NA		NA		NA		-
SP#5-11'	02/09/18	11	176		NA		NA		NA		NA		NA		NA		NA		NA		-
SP#5-13'	02/09/18	13	320		NA		NA		NA		NA		NA		NA		NA		NA		-

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

NA Not analyzed

TPH Total Petroleum Hydrocarbons

GRO Gasoline Range Organics

DRO Diesel Range Organics

Bold and italicized values indicate exceedance of 600 mg/kg limit for chloride.

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

QUALIFIERS:

QM-07

The spike recovery was outside acceptance limits for the MS and/or MSD.

The batch was accepted based on acceptable LCS recovery.

TABLE 2
 SUMMARY OF ANALYTICAL RESULTS
 CONFIRMATION SAMPLING - 1RP-4652
 CONOCOPHILLIPS
 MCA #67
 LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Chloride ¹		BTEX ²										TPH ³						
				Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH
		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
WALL #1	3/15/2018	704		NA		NA		NA		NA		NA		NA		NA		NA		-
WALL #2	3/15/2018	400		NA		NA		NA		NA		NA		NA		NA		NA		-
WALL #3	3/15/2018	16.0		NA		NA		NA		NA		NA		NA		NA		NA		-
WALL #4	3/15/2018	16.0		NA		NA		NA		NA		NA		NA		NA		NA		-
WALL #5	3/15/2018	144		NA		NA		NA		NA		NA		NA		NA		NA		-
WALL #6	3/15/2018	16		NA		NA		NA		NA		NA		NA		NA		NA		-
WALL #7	3/15/2018	144.0		NA		NA		NA		NA		NA		NA		NA		NA		-
WALL #8	3/15/2018	<16.0		NA		NA		NA		NA		NA		NA		NA		NA		-
WALL #9	3/15/2018	<16.0	QM-07	NA		NA		NA		NA		NA		NA		NA		NA		-
WALL #10	3/15/2018	32		NA		NA		NA		NA		NA		NA		NA		NA		-
WALL #11	3/15/2018	32		NA		NA		NA		NA		NA		NA		NA		NA		-
WALL #12	3/15/2018	144		NA		NA		NA		NA		NA		NA		NA		NA		-
WALL #13	3/15/2018	128		NA		NA		NA		NA		NA		NA		NA		NA		-
FLOOR #1	3/15/2018	64		NA		NA		NA		NA		NA		NA		NA		NA		-
FLOOR #2	3/15/2018	16		NA		NA		NA		NA		NA		NA		NA		NA		-
STOCKPILE #1	3/15/2018	64		NA		NA		NA		NA		NA		NA		NA		NA		-
STOCKPILE #2	3/15/2018	240		NA		NA		NA		NA		NA		NA		NA		NA		-
STOCKPILE #3	3/15/2018	32		NA		NA		NA		NA		NA		NA		NA		NA		-

NOTES:

- ft. Feet
 - bgs Below ground surface
 - mg/kg Milligrams per kilogram
 - NA Not analyzed
 - TPH Total Petroleum Hydrocarbons
 - GRO Gasoline Range Organics
 - DRO Diesel Range Organics
- Bold and italicized values indicate exceedance of 600 mg/kg limit for chloride.**
- 1 Method SM4500Cl-B
 - 2 Method 8021B
 - 3 Method 8015M
- QUALIFIERS:
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD.
The batch was accepted based on acceptable LCS recovery.

**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: Cullen Rosine
Address: 29 Vacuum Complex Lane	Telephone No. 575-391-3133
Facility Name: MCA 67	Facility Type: Injection Well
Surface Owner: Federal	Mineral Owner: N/A
API No. 30-025-00610	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	21	17S	32E					Lea
Latitude 32.8182831		Longitude -103.7779236						

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 58.5 BBL	Volume Recovered: 55 BBL
Source of Release: Casing leak	Date and Hour of Occurrence 3-20-2017 8:30 AM	Date and Hour of Discovery 3-20-2017 12:00 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Shelly Tucker	
By Whom? Cullen Rosine	Date and Hour: 3-20-2017 1520 hours via phone	
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 11:26 am, Mar 23, 2017

Describe Cause of Problem and Remedial Action Taken. On March 20, 2017 at 0830 hours. MSO was informed of leak on MCA 67 injection well. When he arrived on location it was discovered that there was a hole in the casing that released 58.5 BPW. 55 bbls were recovered. Spill site will be remediated per BLM and NMOCD guidelines.

Describe Area Affected and Cleanup Action Taken. *
Area 1 – 180’ X 150’ X 2” deep.
Area 2 – 180’ X 6’ X 1” deep.
Area 3 – 60’ X 45’ X 3” deep.

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

Signature: <i>Cullen Rosine</i>		OIL CONSERVATION DIVISION	
Printed Name: Cullen Rosine		Approved by Environmental Specialist: <i>[Signature]</i>	
Title: HSE Specialist	Approval Date: 3/23/2017	Expiration Date:	
E-mail Address: Cullen.J.Rosine@conocophillips.com	Conditions of Approval: see attached directive		Attached <input checked="" type="checkbox"/>
Date: 3/22/2017	Phone: 575-391-3133		

* Attach Additional Sheets If Necessary

1RP-4652 **nOY1708248387** **pOY1708248862**

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____
 Signature:  _____ Date: _____
 email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: Ashley Maxwell Date: 10/17/2023
 Printed Name: Ashley Maxwell Title: Environmental Scientist

**ATTACHMENT B
NMOSE Groundwater Data**



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced, O=orphaned, C=the file is closed) (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
RA 12521 POD1	RA	LE		3	3	4	21	17S	32E	615127	3631271	105	92	13
RA 12522 POD1	RA	LE		3	3	4	21	17S	32E	614941	3631122	100		

Average Depth to Water: **92 feet**
 Minimum Depth: **92 feet**
 Maximum Depth: **92 feet**

Record Count: 2

PLSS Search:

Section(s): 21 Township: 17S Range: 32E

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

Karst Potential Map

MCA Unit 67 Release

1RP-4652

32.8182831°, -103.7779236°

Legend

-  32.8182831°, -103.7779236
-  High
-  Low
-  Medium



Google Earth



10 mi

**ATTACHMENT C
CAP**

ConocoPhillips, MCA 67; RP-4652

UL-L, Sec-21, T-17S, R-32E, Lea County New Mexico, DGW-'81'

On March 20, 2017 a leak was found on the MCA 67 from the casing on this well. It resulted in the release of 58.5 bbls. Of produced water with 55 bbls. Recovered. Covering approximately 31,000 square feet of COPC and COG pad area. Immediate action by COPC was to dig out all visibly wet contaminated material and dispose of contaminated material at an approved disposal. This resulted in approximately 1' of material being removed from location. Samples were taken on February 9th 2018 at 5 different spots (see attached map). Samples were all tested for chlorides and to 3' were tested for TPH and Btex for verification. Samples were sent to cardinal Lab. COPC proposes digging out an additional 6" or until clean (below 600ppm chlorides) in the sample #2, #3 and #4 areas (out lined in blue and green). This material will be disposed of at an approved disposal. We will then dig an additional 2.5' out in the area around #3 and #4 (outlined in blue) and put down a 40 mil plastic liner. The material dug out from around area #3 and #4 will be stockpiled and we sample every 50 yds. Of stockpiled soil and get lab verification to assure it is below 600 ppm chlorides and we will reuse this material as backfill on top of the liner. We will pull wall samples of the dug out area for lab verification that we have dug out all contaminated area horizontally. We will then backfill entire area with a clean base coarse. Please see attached map for planned excavation areas and depths.

APPROVED

By Olivia Yu at 10:02 am, Apr 02, 2018

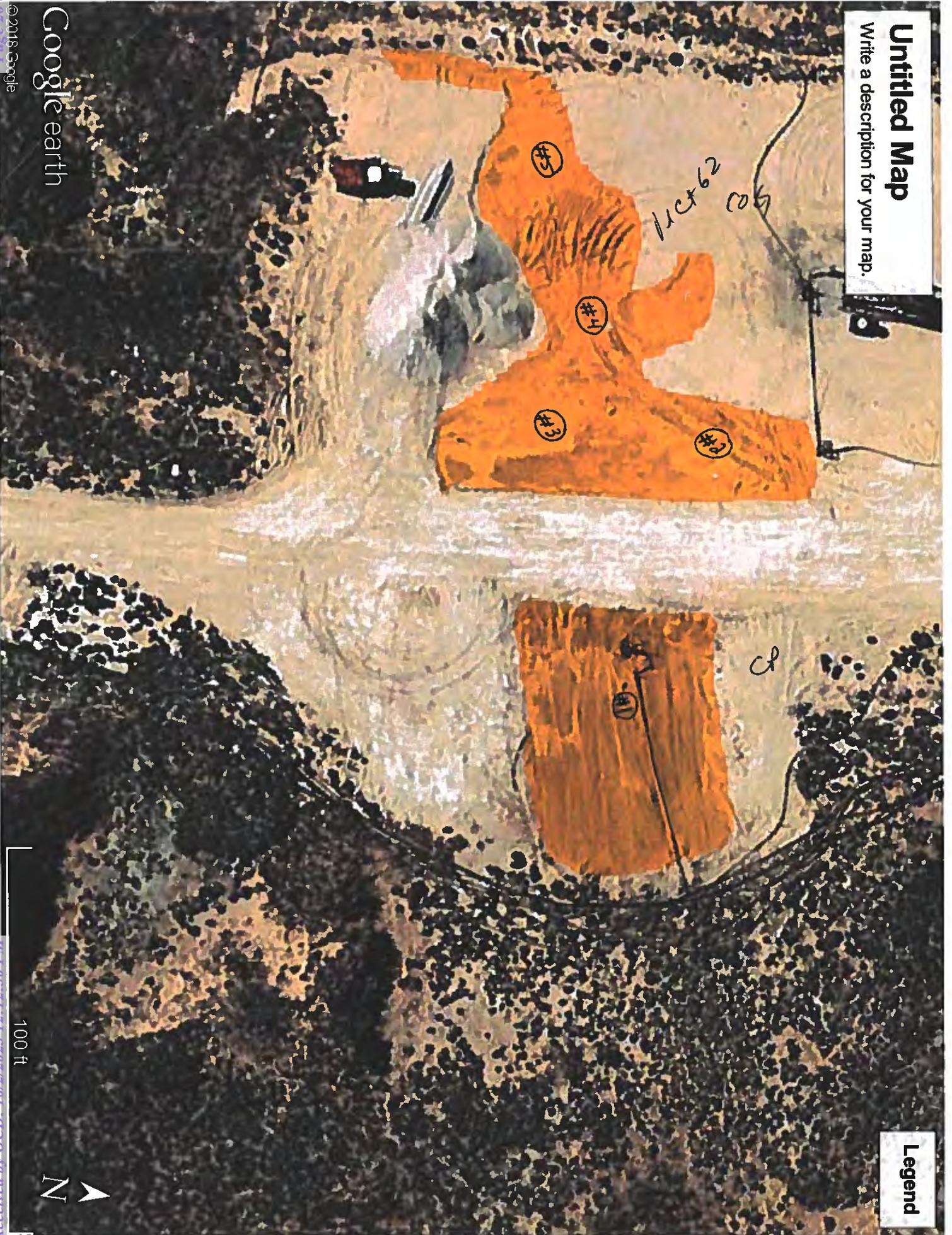
NMOCD approves of the delineation completed and proposed remediation for 1RP-4652 with these clarifications:

- 1) To complete release characterization, laboratory analysis of soil samples from the lateral extent of the release area (4 cardinal directions).
- 2) Laboratory analyses of stockpiled soil at every 50 cubic yards.
- 3) On a scaled map, outline area with properly keyed liner; mark release point and confirmation sample locations with GPS coordinates; and annotate areas with differing depths of excavation (or no excavation required).

Untitled Map

Write a description for your map.

Legend



Google earth

© 2018 Google

100 ft







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

February 16, 2018

JUSTIN WRIGHT

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: MCA #67

Enclosed are the results of analyses for samples received by the laboratory on 02/09/18 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/09/2018	Sampling Date:	02/09/2018
Reported:	02/16/2018	Sampling Type:	Soil
Project Name:	MCA #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC - LEA COUNTY, NM		

Sample ID: SP#1 - 1' (H800422-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2018	ND	1.62	80.9	2.00	6.60	
Toluene*	<0.050	0.050	02/10/2018	ND	1.62	81.0	2.00	7.59	
Ethylbenzene*	<0.050	0.050	02/10/2018	ND	1.61	80.7	2.00	7.90	
Total Xylenes*	<0.150	0.150	02/10/2018	ND	4.77	79.6	6.00	7.17	
Total BTEX	<0.300	0.300	02/10/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/13/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	02/13/2018	ND	214	107	200	1.66	
DRO >C10-C28*	<50.0	50.0	02/13/2018	ND	205	103	200	5.99	
EXT DRO >C28-C36	<50.0	50.0	02/13/2018	ND					

Surrogate: 1-Chlorooctane 78.0 % 41-142

Surrogate: 1-Chlorooctadecane 76.7 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/09/2018	Sampling Date:	02/09/2018
Reported:	02/16/2018	Sampling Type:	Soil
Project Name:	MCA #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC - LEA COUNTY, NM		

Sample ID: SP#1 - 3' (H800422-02)

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	02/10/2018	ND	1.62	80.9	2.00	6.60	
Toluene*	<0.050	0.050	02/10/2018	ND	1.62	81.0	2.00	7.59	
Ethylbenzene*	<0.050	0.050	02/10/2018	ND	1.61	80.7	2.00	7.90	
Total Xylenes*	<0.150	0.150	02/10/2018	ND	4.77	79.6	6.00	7.17	
Total BTEX	<0.300	0.300	02/10/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/13/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	02/13/2018	ND	212	106	200	1.83	
DRO >C10-C28*	<50.0	50.0	02/13/2018	ND	215	108	200	2.66	QM-07
EXT DRO >C28-C36	<50.0	50.0	02/13/2018	ND					

Surrogate: 1-Chlorooctane 96.8 % 41-142

Surrogate: 1-Chlorooctadecane 94.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/09/2018	Sampling Date:	02/09/2018
Reported:	02/16/2018	Sampling Type:	Soil
Project Name:	MCA #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC - LEA COUNTY, NM		

Sample ID: SP#1 - 5' (H800422-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/13/2018	ND	432	108	400	3.77	

Sample ID: SP#1 - 7' (H800422-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/13/2018	ND	432	108	400	3.77	

Sample ID: SP#1 - 9' (H800422-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/13/2018	ND	432	108	400	3.77	

Sample ID: SP#1 - 11' (H800422-06)

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	02/13/2018	ND	432	108	400	3.77	

Sample ID: SP#1 - 13' (H800422-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/13/2018	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/09/2018	Sampling Date:	02/09/2018
Reported:	02/16/2018	Sampling Type:	Soil
Project Name:	MCA #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC - LEA COUNTY, NM		

Sample ID: SP#2 - 1' (H800422-08)

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	02/10/2018	ND	1.62	80.9	2.00	6.60	
Toluene*	<0.050	0.050	02/10/2018	ND	1.62	81.0	2.00	7.59	
Ethylbenzene*	<0.050	0.050	02/10/2018	ND	1.61	80.7	2.00	7.90	
Total Xylenes*	<0.150	0.150	02/10/2018	ND	4.77	79.6	6.00	7.17	
Total BTEX	<0.300	0.300	02/10/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16000	16.0	02/13/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2018	ND	212	106	200	1.83	
DRO >C10-C28*	<10.0	10.0	02/13/2018	ND	215	108	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	02/13/2018	ND					

Surrogate: 1-Chlorooctane 95.7 % 41-142

Surrogate: 1-Chlorooctadecane 96.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/09/2018	Sampling Date:	02/09/2018
Reported:	02/16/2018	Sampling Type:	Soil
Project Name:	MCA #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC - LEA COUNTY, NM		

Sample ID: SP#2 - 3' (H800422-09)

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	02/10/2018	ND	1.62	80.9	2.00	6.60	
Toluene*	<0.050	0.050	02/10/2018	ND	1.62	81.0	2.00	7.59	
Ethylbenzene*	<0.050	0.050	02/10/2018	ND	1.61	80.7	2.00	7.90	
Total Xylenes*	<0.150	0.150	02/10/2018	ND	4.77	79.6	6.00	7.17	
Total BTEX	<0.300	0.300	02/10/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/13/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2018	ND	212	106	200	1.83	
DRO >C10-C28*	<10.0	10.0	02/13/2018	ND	215	108	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	02/13/2018	ND					

Surrogate: 1-Chlorooctane 99.4 % 41-142

Surrogate: 1-Chlorooctadecane 98.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/09/2018	Sampling Date:	02/09/2018
Reported:	02/16/2018	Sampling Type:	Soil
Project Name:	MCA #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC - LEA COUNTY, NM		

Sample ID: SP#2 - 5' (H800422-10)

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	02/14/2018	ND	416	104	400	0.00	

Sample ID: SP#2 - 7' (H800422-11)

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	02/14/2018	ND	416	104	400	0.00	

Sample ID: SP#2 - 9' (H800422-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/14/2018	ND	416	104	400	0.00	

Sample ID: SP#2 - 11' (H800422-13)

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	02/14/2018	ND	416	104	400	0.00	

Sample ID: SP#2 - 13' (H800422-14)

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	02/14/2018	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/09/2018	Sampling Date:	02/09/2018
Reported:	02/16/2018	Sampling Type:	Soil
Project Name:	MCA #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC - LEA COUNTY, NM		

Sample ID: SP#3 - 1' (H800422-15)

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	02/10/2018	ND	1.62	80.9	2.00	6.60	
Toluene*	<0.050	0.050	02/10/2018	ND	1.62	81.0	2.00	7.59	
Ethylbenzene*	<0.050	0.050	02/10/2018	ND	1.61	80.7	2.00	7.90	
Total Xylenes*	<0.150	0.150	02/10/2018	ND	4.77	79.6	6.00	7.17	
Total BTEX	<0.300	0.300	02/10/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/14/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2018	ND	212	106	200	1.83	
DRO >C10-C28*	<10.0	10.0	02/14/2018	ND	215	108	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	02/14/2018	ND					

Surrogate: 1-Chlorooctane 85.8 % 41-142

Surrogate: 1-Chlorooctadecane 84.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/09/2018	Sampling Date:	02/09/2018
Reported:	02/16/2018	Sampling Type:	Soil
Project Name:	MCA #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC - LEA COUNTY, NM		

Sample ID: SP#3 - 3' (H800422-16)

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	02/12/2018	ND	2.16	108	2.00	16.4	
Toluene*	<0.050	0.050	02/12/2018	ND	2.12	106	2.00	16.6	
Ethylbenzene*	<0.050	0.050	02/12/2018	ND	2.09	105	2.00	15.9	
Total Xylenes*	<0.150	0.150	02/12/2018	ND	6.35	106	6.00	15.9	
Total BTEX	<0.300	0.300	02/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/14/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2018	ND	212	106	200	1.83	
DRO >C10-C28*	<10.0	10.0	02/14/2018	ND	215	108	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	02/14/2018	ND					

Surrogate: 1-Chlorooctane 98.8 % 41-142

Surrogate: 1-Chlorooctadecane 98.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/09/2018	Sampling Date:	02/09/2018
Reported:	02/16/2018	Sampling Type:	Soil
Project Name:	MCA #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC - LEA COUNTY, NM		

Sample ID: SP#3 - 5' (H800422-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/14/2018	ND	416	104	400	0.00	

Sample ID: SP#3 - 7' (H800422-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	02/14/2018	ND	416	104	400	0.00	

Sample ID: SP#3 - 9' (H800422-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	02/14/2018	ND	416	104	400	0.00	

Sample ID: SP#3 - 11' (H800422-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/14/2018	ND	416	104	400	0.00	

Sample ID: SP#3 - 13' (H800422-21)

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	02/14/2018	ND	416	104	400	0.00	

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Analytical Results For:

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

Received:	02/09/2018	Sampling Date:	02/09/2018
Reported:	02/16/2018	Sampling Type:	Soil
Project Name:	MCA #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC - LEA COUNTY, NM		

Sample ID: SP#4 - 1' (H800422-22)

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	02/12/2018	ND	2.16	108	2.00	16.4		
Toluene*	<0.050	0.050	02/12/2018	ND	2.12	106	2.00	16.6		
Ethylbenzene*	<0.050	0.050	02/12/2018	ND	2.09	105	2.00	15.9		
Total Xylenes*	<0.150	0.150	02/12/2018	ND	6.35	106	6.00	15.9		
Total BTEX	<0.300	0.300	02/12/2018	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3360	16.0	02/14/2018	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/14/2018	ND	212	106	200	1.83		
DRO >C10-C28*	<10.0	10.0	02/14/2018	ND	215	108	200	2.66		
EXT DRO >C28-C36	<10.0	10.0	02/14/2018	ND						

Surrogate: 1-Chlorooctane 95.4 % 41-142

Surrogate: 1-Chlorooctadecane 96.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/09/2018	Sampling Date:	02/09/2018
Reported:	02/16/2018	Sampling Type:	Soil
Project Name:	MCA #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC - LEA COUNTY, NM		

Sample ID: SP#4 - 3' (H800422-23)

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	02/12/2018	ND	2.16	108	2.00	16.4	
Toluene*	<0.050	0.050	02/12/2018	ND	2.12	106	2.00	16.6	
Ethylbenzene*	<0.050	0.050	02/12/2018	ND	2.09	105	2.00	15.9	
Total Xylenes*	<0.150	0.150	02/12/2018	ND	6.35	106	6.00	15.9	
Total BTEX	<0.300	0.300	02/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/14/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2018	ND	212	106	200	1.83	
DRO >C10-C28*	<10.0	10.0	02/14/2018	ND	215	108	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	02/14/2018	ND					

Surrogate: 1-Chlorooctane 92.7 % 41-142

Surrogate: 1-Chlorooctadecane 91.9 % 37.6-147

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Analytical Results For:

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

Received:	02/09/2018	Sampling Date:	02/09/2018
Reported:	02/16/2018	Sampling Type:	Soil
Project Name:	MCA #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC - LEA COUNTY, NM		

Sample ID: SP#4 - 5' (H800422-24)

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	02/14/2018	ND	416	104	400	0.00	

Sample ID: SP#4 - 7' (H800422-25)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	02/14/2018	ND	416	104	400	0.00	

Sample ID: SP#4 - 9' (H800422-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	02/14/2018	ND	416	104	400	0.00	

Sample ID: SP#4 - 11' (H800422-27)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	02/14/2018	ND	416	104	400	0.00	

Sample ID: SP#4 - 13' (H800422-28)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/14/2018	ND	416	104	400	0.00	

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Analytical Results For:

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

Received:	02/09/2018	Sampling Date:	02/09/2018
Reported:	02/16/2018	Sampling Type:	Soil
Project Name:	MCA #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC - LEA COUNTY, NM		

Sample ID: SP#5 - 1' (H800422-29)

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	02/12/2018	ND	2.16	108	2.00	16.4	
Toluene*	<0.050	0.050	02/12/2018	ND	2.12	106	2.00	16.6	
Ethylbenzene*	<0.050	0.050	02/12/2018	ND	2.09	105	2.00	15.9	
Total Xylenes*	<0.150	0.150	02/12/2018	ND	6.35	106	6.00	15.9	
Total BTEX	<0.300	0.300	02/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	02/14/2018	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	02/14/2018	ND	212	106	200	1.83	
DRO >C10-C28*	<10.0	10.0	02/14/2018	ND	215	108	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	02/14/2018	ND					

Surrogate: 1-Chlorooctane 88.6 % 41-142

Surrogate: 1-Chlorooctadecane 86.7 % 37.6-147

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Analytical Results For:

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

Received:	02/09/2018	Sampling Date:	02/09/2018
Reported:	02/16/2018	Sampling Type:	Soil
Project Name:	MCA #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC - LEA COUNTY, NM		

Sample ID: SP#5 - 3' (H800422-30)

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	02/12/2018	ND	2.16	108	2.00	16.4	
Toluene*	<0.050	0.050	02/12/2018	ND	2.12	106	2.00	16.6	
Ethylbenzene*	<0.050	0.050	02/12/2018	ND	2.09	105	2.00	15.9	
Total Xylenes*	<0.150	0.150	02/12/2018	ND	6.35	106	6.00	15.9	
Total BTEX	<0.300	0.300	02/12/2018	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	02/14/2018	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	02/14/2018	ND	212	106	200	1.83	
DRO >C10-C28*	<10.0	10.0	02/14/2018	ND	215	108	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	02/14/2018	ND					

Surrogate: 1-Chlorooctane 93.6 % 41-142

Surrogate: 1-Chlorooctadecane 93.2 % 37.6-147

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Analytical Results For:

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

Received:	02/09/2018	Sampling Date:	02/09/2018
Reported:	02/16/2018	Sampling Type:	Soil
Project Name:	MCA #67	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC - LEA COUNTY, NM		

Sample ID: SP#5 - 5' (H800422-31)

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	02/14/2018	ND	432	108	400	0.00	

Sample ID: SP#5 - 7' (H800422-32)

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	02/14/2018	ND	432	108	400	0.00	

Sample ID: SP#5 - 9' (H800422-33)

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	02/14/2018	ND	432	108	400	0.00	

Sample ID: SP#5 - 11' (H800422-34)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/14/2018	ND	432	108	400	0.00	

Sample ID: SP#5 - 13' (H800422-35)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/14/2018	ND	432	108	400	0.00	

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Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Page ___ of ___

Company Name: *Conoco Phillips*
 Project Manager: *Justin Wright*
 Address:

BILL TO

ANALYSIS REQUEST

City: *Hobbs* State: *NM* Zip: *88240*

Phone #: _____ Fax #: _____

Project #: _____ Project Owner: *CORP*

Project Name: *MCA 67* State: _____ City: _____ Address: _____

Project Location: *Log Campy, NM* State: _____ City: _____ Address: _____

Sampler Name: *Justin Wright* P.O. #: _____ Company: _____

FOR LAB USE ONLY

Matrix: _____ Preserv: _____ Sampling: _____

Lab I.D. Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	ANALYSIS REQUEST
<i>H 800422</i>	<i>1 SP#1-1'</i>	<i>G</i>	<i>6</i>	<i>SOIL</i>	<i>✓</i>	<i>✓</i>	<i>2-9-18</i>	<i>11:00 AM</i>	<i>CHLORIDES</i>
	<i>2 SP#1-3'</i>	<i>G</i>	<i>6</i>	<i>SOIL</i>	<i>✓</i>	<i>✓</i>	<i>2-9-18</i>	<i>11:00 AM</i>	<i>TPH</i>
	<i>3 SP#1-5'</i>	<i>G</i>	<i>6</i>	<i>SOIL</i>	<i>✓</i>	<i>✓</i>	<i>2-9-18</i>	<i>11:00 AM</i>	<i>BTEX</i>
	<i>4 SP#1-7'</i>	<i>G</i>	<i>6</i>	<i>SOIL</i>	<i>✓</i>	<i>✓</i>	<i>2-9-18</i>	<i>11:00 AM</i>	
	<i>5 SP#1-9'</i>	<i>G</i>	<i>6</i>	<i>SOIL</i>	<i>✓</i>	<i>✓</i>	<i>2-9-18</i>	<i>11:00 AM</i>	
	<i>6 SP#1-11'</i>	<i>G</i>	<i>6</i>	<i>SOIL</i>	<i>✓</i>	<i>✓</i>	<i>2-9-18</i>	<i>11:00 AM</i>	
	<i>7 SP#1-13'</i>	<i>G</i>	<i>6</i>	<i>SOIL</i>	<i>✓</i>	<i>✓</i>	<i>2-9-18</i>	<i>11:00 AM</i>	
	<i>8 SP#2-1'</i>	<i>G</i>	<i>6</i>	<i>SOIL</i>	<i>✓</i>	<i>✓</i>	<i>2-9-18</i>	<i>11:00 AM</i>	
	<i>9 SP#2-3'</i>	<i>G</i>	<i>6</i>	<i>SOIL</i>	<i>✓</i>	<i>✓</i>	<i>2-9-18</i>	<i>11:00 AM</i>	
	<i>10 SP#2-5'</i>	<i>G</i>	<i>6</i>	<i>SOIL</i>	<i>✓</i>	<i>✓</i>	<i>2-9-18</i>	<i>11:00 AM</i>	

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Sampler Relinquished: _____ Date: *2-9-18* Received By: *Jawara Delatorre*

Relinquished By: _____ Date: *11:00 AM* Received By: *Jawara Delatorre*

Delivered By: (Circle One) *1.66* Temp. _____

Sampler - UPS - Bus - Other: *Delivered 1.66* Sample Condition: Cool Intact Yes No Yes No

Checked By: *72 #15* (Initials)

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



ARDINAL LABORATORIES

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Page of

Company Name: Conoco Phillips P.O. #: COB **BILL TO**

Project Manager: Joshua Wright Company: COB **ANALYSIS REQUEST**

Address: Hobbs State: NM Zip: 88240

City: Hobbs Attn:

Phone #: 575-631-9082 Fax #: Address:

Project #: Project Owner: COB City:

Project Name: MCR 67 State: Zip:

Project Location: Lea County, NM Phone #:

Sampler Name: Joshua Wright Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
<u>AS800422</u>													
	<u>11 SP#2-7'</u>	<u>G</u>	<u>5</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>2-9-18</u>	<u> </u>	<u>✓</u>	<u>CHLORIDES</u>
	<u>12 SP#2-9'</u>	<u>G</u>	<u>5</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>2-9-18</u>	<u> </u>	<u>✓</u>	<u>TPH</u>
	<u>13 SP#2-11'</u>	<u>G</u>	<u>5</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>2-9-18</u>	<u> </u>	<u>✓</u>	<u>BTEX</u>
	<u>14 SP#2-13'</u>	<u>G</u>	<u>5</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>2-9-18</u>	<u> </u>	<u>✓</u>	
	<u>15 SP#3-1'</u>	<u>G</u>	<u>5</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>2-9-18</u>	<u> </u>	<u>✓</u>	
	<u>16 SP#3-3'</u>	<u>G</u>	<u>5</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>2-9-18</u>	<u> </u>	<u>✓</u>	
	<u>17 SP#3-5'</u>	<u>G</u>	<u>5</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>2-9-18</u>	<u> </u>	<u>✓</u>	
	<u>18 SP#3-7'</u>	<u>G</u>	<u>5</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>2-9-18</u>	<u> </u>	<u>✓</u>	
	<u>19 SP#3-9'</u>	<u>G</u>	<u>5</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>2-9-18</u>	<u> </u>	<u>✓</u>	
	<u>20 SP#3-11'</u>	<u>G</u>	<u>5</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>2-9-18</u>	<u> </u>	<u>✓</u>	

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Sampler Relinquished By: Joselyn Date: 2-9-18 Received By: Joselyn

Relinquished By: Joselyn Date: 11-00 Received By: Joselyn

Time: Time:

Delivered By: (Circle One) 1.6c Temp. Sample Condition CHECKED BY: Joselyn

Sampler - UPS - Bus - Other: Consent 1.85c Cool Intact 10-175

Phone Result: No Add'l Phone #:

Fax Result: No Add'l Fax #:

REMARKS:

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ARDINAL LABORATORIES

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Page _____ of _____

Company Name: Conaco Phillips
 Project Manager: Justin Wright
 Address: _____
 City: Hobbs State: NM zip: 88240
 Phone #: 575-431-9092 Fax #: _____
 Project #: _____ Project Owner: CORC
 Project Name: MCA 67 State: _____ City: _____
 Project Location: Lea County, NM State: _____ Zip: _____
 Sampler Name: Justin Wright Phone #: _____ Fax #: _____

BILL TO
 P.O. #: CORC
 Company: _____
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	CHLORIDES	TPH	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
<u>AS00422</u>																
	<u>21 SP#3-13'</u>	<u>G</u>	<u>6</u>	<u>✓</u>								<u>2-9-18</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>
	<u>22 SP#4-1'</u>	<u>G</u>	<u>6</u>	<u>✓</u>								<u>2-9-18</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>
	<u>23 SP#4-3'</u>	<u>G</u>	<u>6</u>	<u>✓</u>								<u>2-9-18</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>
	<u>24 SP#4-5'</u>	<u>G</u>	<u>6</u>	<u>✓</u>								<u>2-9-18</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>
	<u>25 SP#4-7'</u>	<u>G</u>	<u>6</u>	<u>✓</u>								<u>2-9-18</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>
	<u>24 SP#4-9'</u>	<u>G</u>	<u>6</u>	<u>✓</u>								<u>2-9-18</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>
	<u>27 SP#4-11'</u>	<u>G</u>	<u>6</u>	<u>✓</u>								<u>2-9-18</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>
	<u>28 SP#4-13'</u>	<u>G</u>	<u>6</u>	<u>✓</u>								<u>2-9-18</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>
	<u>29 SP#5-1'</u>	<u>G</u>	<u>6</u>	<u>✓</u>								<u>2-9-18</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>
	<u>30 SP#5-3'</u>	<u>G</u>	<u>6</u>	<u>✓</u>								<u>2-9-18</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>

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Delivered By: (Circle One) 1.6c Temp. _____ Sample Condition: Cool Intact
 Sampler - UPS - Bus - Other: Permitted 1.85c Yes No Yes No 70.75 CHECKED BY: _____ (Initials)
 Relinquished By: _____ Date: 2-18 Received By: James Kelly Date: 7:00 AM
 Time: _____

Phone Result: No Add'l Phone #: _____
 Fax Result: No Add'l Fax #: _____
 REMARKS: _____

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Page ___ of ___

BILL TO

ANALYSIS REQUEST

Company Name: ConocoPhillips
 Project Manager: Washa Wright
 Address: _____
 City: Hobbs State: NM Zip: 88249
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: COPL

P.O. #: _____
 Company: COPL
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Project Name: MCH 67
 Project Location: Lea County, NM
 Sampler Name: Washa Wright

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<u>AS800422</u>														
	<u>31 SP#5-5'</u>		<u>6</u>									<u>2-9-18</u>		<u>✓</u>
	<u>32 SP#5-7'</u>		<u>6</u>									<u>2-9-18</u>		<u>✓</u>
	<u>33 SP#5-9'</u>		<u>6</u>									<u>2-9-18</u>		<u>✓</u>
	<u>34 SP#5-11'</u>		<u>6</u>									<u>2-9-18</u>		<u>✓</u>
	<u>35 SP#5-13'</u>		<u>6</u>									<u>2-9-18</u>		<u>✓</u>

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Sampler Relinquished: _____ Date: 9-18 Received By: _____
 Relinquished By: _____ Date: 10-02-18 Received By: Jamara Chavez

Delivered By: (Circle One) 1.6c Temp. _____ Sample Condition _____
 Sampler - UPS - Bus - Other: Consistent 1.85 Cool Intact
 Yes No Yes No

Checked By: 70-#75
 Phone Result: No Add'l Phone #: _____
 Fax Result: No Add'l Fax #: _____
 REMARKS: _____

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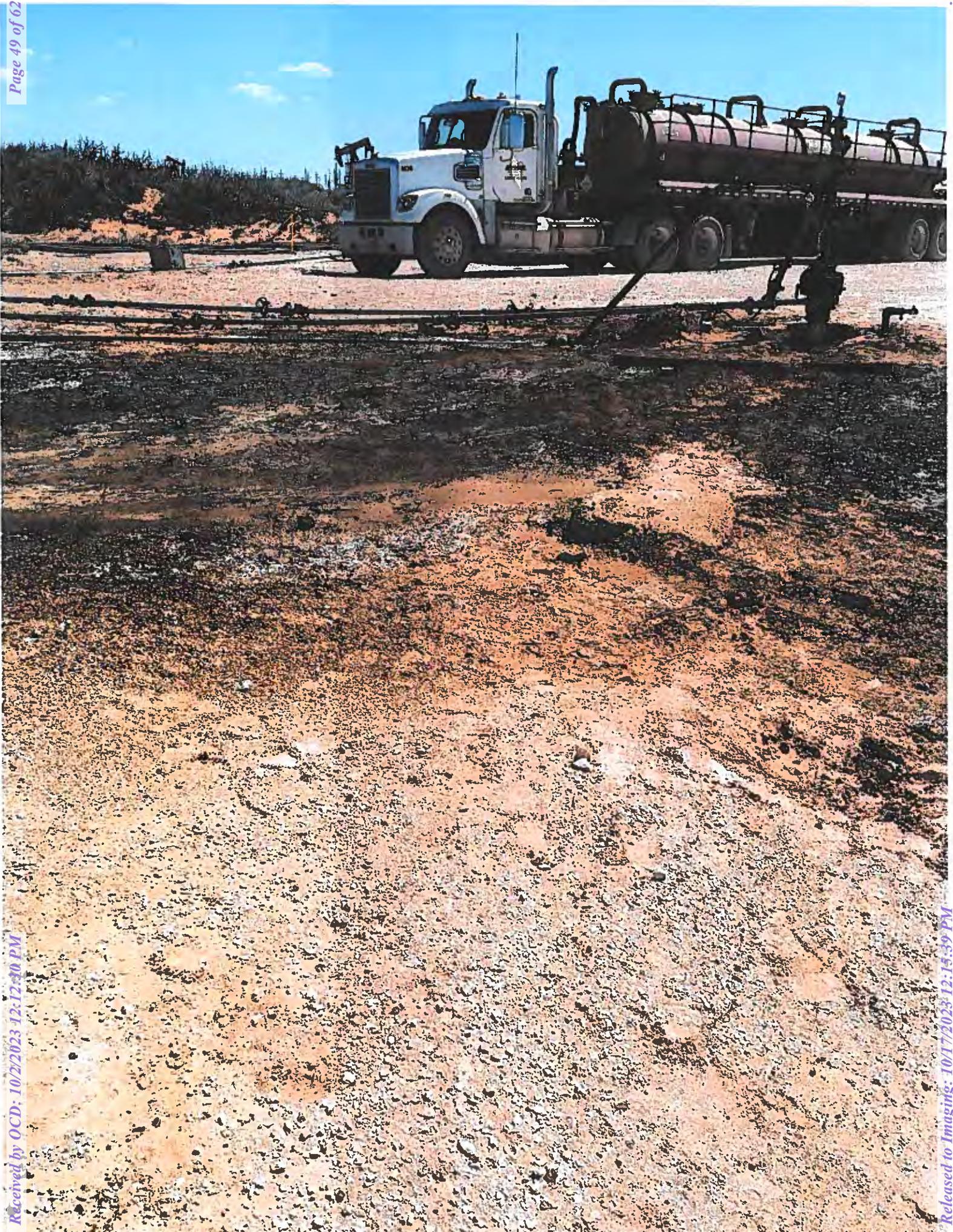


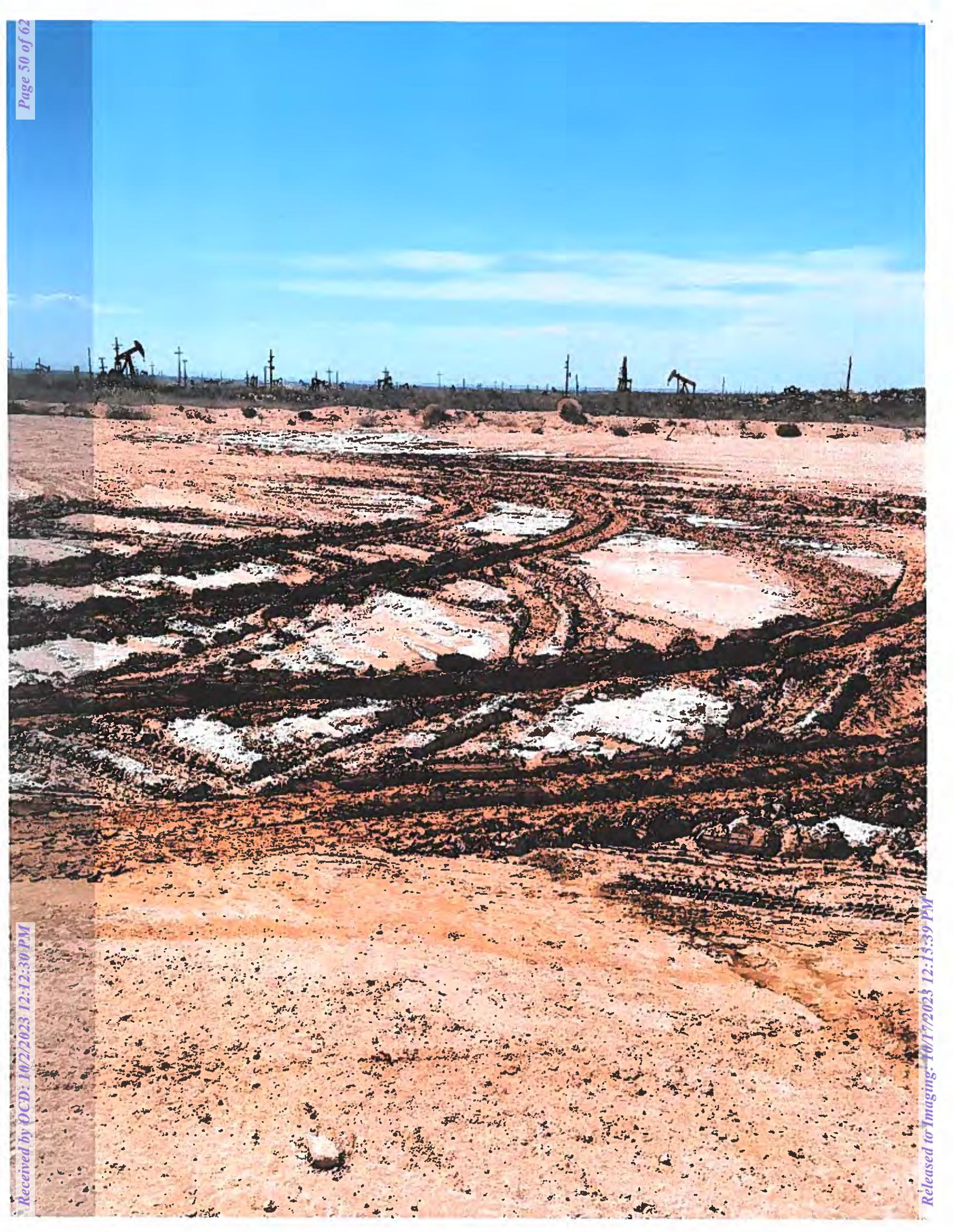
















ATTACHMENT D
Laboratory Analytical Data (Confirmation Sampling)

March 15, 2018

JUSTIN WRIGHT

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: MCA #67

Enclosed are the results of analyses for samples received by the laboratory on 03/14/18 10:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 03/14/2018
 Reported: 03/15/2018
 Project Name: MCA #67
 Project Number: NONE GIVEN
 Project Location: COPC - LEA COUNTY, NM

 Sampling Date: 03/14/2018
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: WALL #1 (H800737-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	03/14/2018	ND	480	120	400	0.00		

Sample ID: WALL #2 (H800737-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	03/14/2018	ND	480	120	400	0.00		

Sample ID: WALL #3 (H800737-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/14/2018	ND	480	120	400	0.00		

Sample ID: WALL #4 (H800737-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/14/2018	ND	480	120	400	0.00		

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 03/14/2018
 Reported: 03/15/2018
 Project Name: MCA #67
 Project Number: NONE GIVEN
 Project Location: COPC - LEA COUNTY, NM

 Sampling Date: 03/14/2018
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: WALL #5 (H800737-05)

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	03/14/2018	ND	480	120	400	0.00	

Sample ID: WALL #6 (H800737-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/14/2018	ND	480	120	400	0.00	

Sample ID: WALL #7 (H800737-07)

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	03/14/2018	ND	480	120	400	0.00	

Sample ID: WALL #8 (H800737-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/14/2018	ND	480	120	400	0.00	

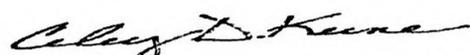
Sample ID: WALL #9 (H800737-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/14/2018	ND	464	116	400	3.39	QM-07

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 03/14/2018
 Reported: 03/15/2018
 Project Name: MCA #67
 Project Number: NONE GIVEN
 Project Location: COPC - LEA COUNTY, NM

 Sampling Date: 03/14/2018
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: WALL #10 (H800737-10)

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	03/14/2018	ND	464	116	400	3.39		

Sample ID: WALL #11 (H800737-11)

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	03/14/2018	ND	464	116	400	3.39		

Sample ID: WALL #12 (H800737-12)

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	03/14/2018	ND	464	116	400	3.39		

Sample ID: WALL #13 (H800737-13)

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	03/14/2018	ND	464	116	400	3.39		

Sample ID: FLOOR #1 (H800737-14)

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	03/14/2018	ND	464	116	400	3.39		

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/14/2018	Sampling Date:	03/14/2018
Reported:	03/15/2018	Sampling Type:	Soil
Project Name:	MCA #67	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COPC - LEA COUNTY, NM		

Sample ID: FLOOR #2 (H800737-15)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/14/2018	ND	464	116	400	3.39		

Sample ID: STOCKPILE #1 (H800737-16)

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	03/14/2018	ND	464	116	400	3.39		

Sample ID: STOCKPILE #2 (H800737-17)

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	03/14/2018	ND	464	116	400	3.39		

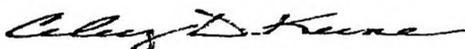
Sample ID: STOCKPILE #3 (H800737-18)

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	03/14/2018	ND	464	116	400	3.39		

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

LUSH!!!

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: *Conoco Phillips*

Project Manager: *Justin Wright*

Address:

City: *Hobbs*

Phone #: *525-631-9098*

Project #:

Project Name: *MCA 67*

Project Location: *Lea County*

Sampler Name: *Justin Wright*

P.O. #:

Company: *Conoco Phillips*

Attn:

Address:

City:

State:

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H900737

Well #1

Well #2

Well #3

Well #4

Well #5

Well #6

Well #7

Well #8

Well #9

Well #10

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

Chlorides

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Relinquished By: *[Signature]*

Date: *3-14-14*

Time: *10:30 AM*

Received By: *[Signature]*

Date: *3-14*

Phone Result: Yes No

Fax Result: Yes No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Delivered By: (Circle One)

Tapes

UPS - Bus - Other: *18.10 / 18.05*

Sample Condition
Cool Intact
Yes No

CHECKED BY: *[Signature]*

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2476

CARDINAL Laboratories

RUSH!!

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: *Conoco Phillips*
 Project Manager: *Justin Wright*

Address: *Hobbs* State: *NM* Zip: *88400*

Phone #: *575-631-9098* Fax #:

Project #: Project Owner: *CR*

Project Name: *MCA 67*

Project Location: *Lea County*

Sampler Name: *Justin Wright*

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H800757												
	11 Well #11	G	6							3-14		✓
	12 Well #12	G	6							3-14		✓
	13 Well #13	G	6							3-14		✓
	14 Floor #1	G	6							3-14		✓
	15 Floor #2	G	6							3-14		✓
	16 Stockpile #1	G	6							3-14		✓
	17 Stockpile #2	G	6							3-14		✓
	18 Stockpile #3	G	6							3-14		✓

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Relinquished By: *[Signature]* Date: *3-14-18*
 Received By: *Debi Sherman* Date: *10:50 AM*

Delivered By: (Circle One) *#75* Sample Condition: Cool Intact
 Sampler - UPS - Bus - Other: *1810 / 18.050* Yes No

Checked By: *[Signature]*

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

REMARKS:

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 271305

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 271305
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	10/17/2023