SITE INFORMATION

Report Type: Closure Report 1RP-5141

General Site Information:						
Site:	**MCA 1C**					
Company:	**ConocoPhillips**					
Section, Township and Range	**Unit M**	**Sec. 20**	**T 17S**	**R 32E**		
Lease Number:	**API No. 30-025-00386 & 30-025-00365**					
County:	**Lea County**					
GPS:	**32.8131905º N**			**103.7842789º W**		
Surface Owner:	State					
Mineral Owner:						
Directions:	Taking 82 west out of Lovington, New Mexico you would turn left in Maljarmar, New Mexico onto CR33 south. Approximately 3 miles down you will turn right onto Conoco Road west and the site will be on your left in approximately 2 miles.					

Release Data:			
RP Number:	**1RP-5141**		
Date Released:	11/11/2016		
Type Release:	Oil & Produced Water		
Source of Contamination:	Flow Line		
Fluid Released:	11 bbls		
Fluids Recovered:	8 bbls		

Official Communication:			
Name:	Jenni Fortunato		Greg Pope
Company:	Conoco Phillips - RMR		Tetra Tech
Address:	935 N. Eldridge PKWY.		901 West Wall Street
			Suite 100
City:	Houston, Texas		Midland, Texas
Phone number:	(281) 293-1000		(432) 682-3946
Fax:			
Email:	jenni.fortunato@conocophillips.com		greg.pope@tetratech.com

Ranking Criteria		
Depth to Groundwater:	***Ranking Score***	***Site Data***
<50 ft	20	
50-99 ft	10	
>100 ft.	***0***	*275'*
WellHead Protection:	***Ranking Score***	***Site Data***
Water Source <1,000 ft., Private <200 ft.	*20*	
Water Source >1,000 ft., Private >200 ft.	***0***	*0*
Surface Body of Water:	***Ranking Score***	***Site Data***
<200 ft.	*20*	
200 ft - 1,000 ft.	10	
>1,000 ft.	***0***	*0*
Total Ranking Score:	***0***	

Acceptable Soil RRAL (mg/kg)		
Benzene	***Total BTEX***	***TPH***
10	50	5,000

CLOSURE REPORT SUBMITTED VIA EMAIL
Wednesday, March 13, 2019
To: emnrd-ocd-district1spills@state.nm.us
RESUBMITTED AS FEE APPLICATION DUE TO LACK OF RESPONSE

TETRA TECH

February 28, 2019

Ms. Christina Hernandez
Environmental Engineer Specialist
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

Re: Closure Report for the ConocoPhillips, MCA 1C Trunkline, Unit M, Section 20, Township 17 South, Range 32 East, Lea County, New Mexico.
1RP-5141.

Ms. Hernandez:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to assess a release that occurred at MCA 1C Trunk line, Unit M, Section 20, Township 17 South, Range 32 East, Lea County, New Mexico (site). The spill site coordinates are N 32.8131905º, W 103.7842789º. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the release occurred on November 11, 2016, and released approximately 9.2 barrels (bbls) of oil and 1.8 bbls of produced water due to a flow line leak on the header trunk line. Vacuum trucks were used to remove the freestanding fluids, recovering approximately 8 bbls of fluid and excavation of accessibly saturated soil. The release occurred in a pasture and around an active underground pipeline operated by ConocoPhillips and Holly Energy, which measured approximately 140' x 30'. The initial C-141 form is included in Appendix A.

Groundwater

According to the New Mexico Office of State Engineer's (NMOSE) Water Rights Reporting System, there are no water wells were listed within Section 20. The nearest water well reported in the database was located within Section 28, with a depth to water of approximately 81 feet. Tetra Tech previously conducted a soil investigation in Section 30, logging 180 feet below surface and did not encounter groundwater. According to the Chevron Texaco Groundwater Trend map, the average depth to groundwater in the area is between 175 to 200 feet below surface. The groundwater data is shown in Appendix B.

Tetra Tech
901 West Wall Street, Suite 100, Midland, TX 79701
Tel 432.682.4559 Fax 432.682.3946 www.tetratech.com

Regulatory

A risk-based evaluation was performed for the site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The approved RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the approved RRAL for TPH is 5,000 mg/kg.

Soil Assessment and Analytical Results

On August 31, 2017, Tetra Tech personnel were onsite to evaluate and sample the release area. A total of four (4) soil borings (B-1 through B-4) were installed in the spill area to assess and define the extents of the impacted soils. Soil samples were collected, and field screened with a photoionized detector (PID) and for chlorides. Three (3) soil samples were selected from each soil boring location for analysis of TPH by EPA method 8015B modified and BTEX by EPA Method 8260. All the samples collected were analyzed for chloride by EPA method 300.0.

All of the soil assessment samples selected for BTEX were below the RRALs. The TPH concentrations for soil borings (B-1 and B-2) were below the RRAL and soil borings (B-3 and B-4) were above the RRAL. Soil borings (B-3 and B-4) declined below the RRAL at 4'-5' below surface. The chloride concentrations were not detected in the subsurface soils greater than 600 mg/kg in B-1 and B-2. The soil borings (B-3 and B-4) had chloride spikes at 4'-5' depth interval but decreased below 600 mg/kg at 6'-7' below surface. Attached Table 1 summarizes the soil assessment data and Figure 3 depicts the soil sample locations.

Closure Work Plan

On July 3, 2018, Tetra Tech submitted the work plan to NMOCD outlining a proposed closure plan for the site. The work plan was approved by NMOCD on August 3, 2018 with additional conditions of collecting bottom and sidewall confirmation samples with demarcated GPS coordinates from the excavated area, soil boring logs, and photographic evidence of remediation events. Based on the assessment results above, ConocoPhillips proposed to excavate the highlighted area around B-3 and B-4 shown on to a depth of 4'-5' below surface to remove impacted soils. All the excavated material will be transported offsite for proper disposal. The area will be backfilled and re-vegetated according to specifications in the approved work plan.

Remediation Activities and Confirmation Analytical Results

From August 20 – August 24, 2018, Tetra Tech personnel were onsite to supervise the excavation and remediation activities. A total of six (6) sidewall samples and two (2) bottom hole samples were collected from the excavated area. Soil samples were collected, and field screened with a PID and for chlorides. The excavation depth was completed at 6 feet below ground surface (bgs). However, field screening data from the PID documented

the presence of elevated volatiles at the excavation bottom. The areas of AH-1 and AH-2 were trenched to 7 feet bgs for delineation data. Confirmation samples were sent to the laboratory for TPH analysis by EPA Method 8015B, BTEX by EPA Method 8260, and chlorides by EPA Method 300.0. Copies of laboratory analysis and COC documentation are included in Appendix C. The laboratory results for the samples taken are summarized in Table 1. A secondary sampling event took place on October 15, 2018 to obtain a singular bottom hole confirmation sample. The excavated area is shown on Figure 4, with depths ranging from 6 feet to 7 feet below surface.

Referring to Table 2, none of the sidewall samples collected exceeded the TPH or BTEX RRALS or the chloride concentration threshold of 600 mg/kg. The samples collected at AH-1 and AH-2 exhibited chloride concentration exceedances above 600 mg/kg. Additionally, sample AH-2 exceeded the TPH and BTEX RRALs at 6 feet bgs but significantly decreased and were below their respective RRALs at 7 feet bgs.

On October 15, 2018, Tetra Tech personnel was onsite to deepen the excavation in the area AH-2 to 7 feet bgs. A confirmation sample was collected and analyzed for TPH by Method 8260 and chlorides by Method 300.0. That sample resulted in a decrease in the chlorides to an acceptable concentration of 302 mg/kg and 0.04 mg/kg for the TPH.

Once the excavation was completed, Tetra Tech lined the excavated area with a 40 mil liner and backfilled with clean material to the previously existing grade. The area was then seeded with a Bureau of Land Management mixture to complete the site restoration activities. All the excavated material was transported offsite for proper disposal. Approximately, 550 cubic yards of material was transported to the R360 facility in Hobbs, New Mexico. Copies of the waste manifests are included in Appendix D.

Conclusion

Based on the soil assessment and remediation work performed at the site, ConocoPhillips requests closure for this spill. The final C-141 is enclosed in Appendix A. If you have any questions or comments concerning the assessment or the remediation activities for this site, please call me at (432) 682-4559.

Additionally, Tetra Tech will monitor the re-vegetation in 2019 to confirm that an established perennial grass life cycle covers approximately 70% of the backfilled area. If the area does not meet the State Land Office requirements, the backfill area will be reseeded accordingly and continued to be monitored. Documentation of the re-vegetation will be provided to the State Land Office.

Respectfully submitted,
TETRA TECH

Kayla Taylor,
Project Manager

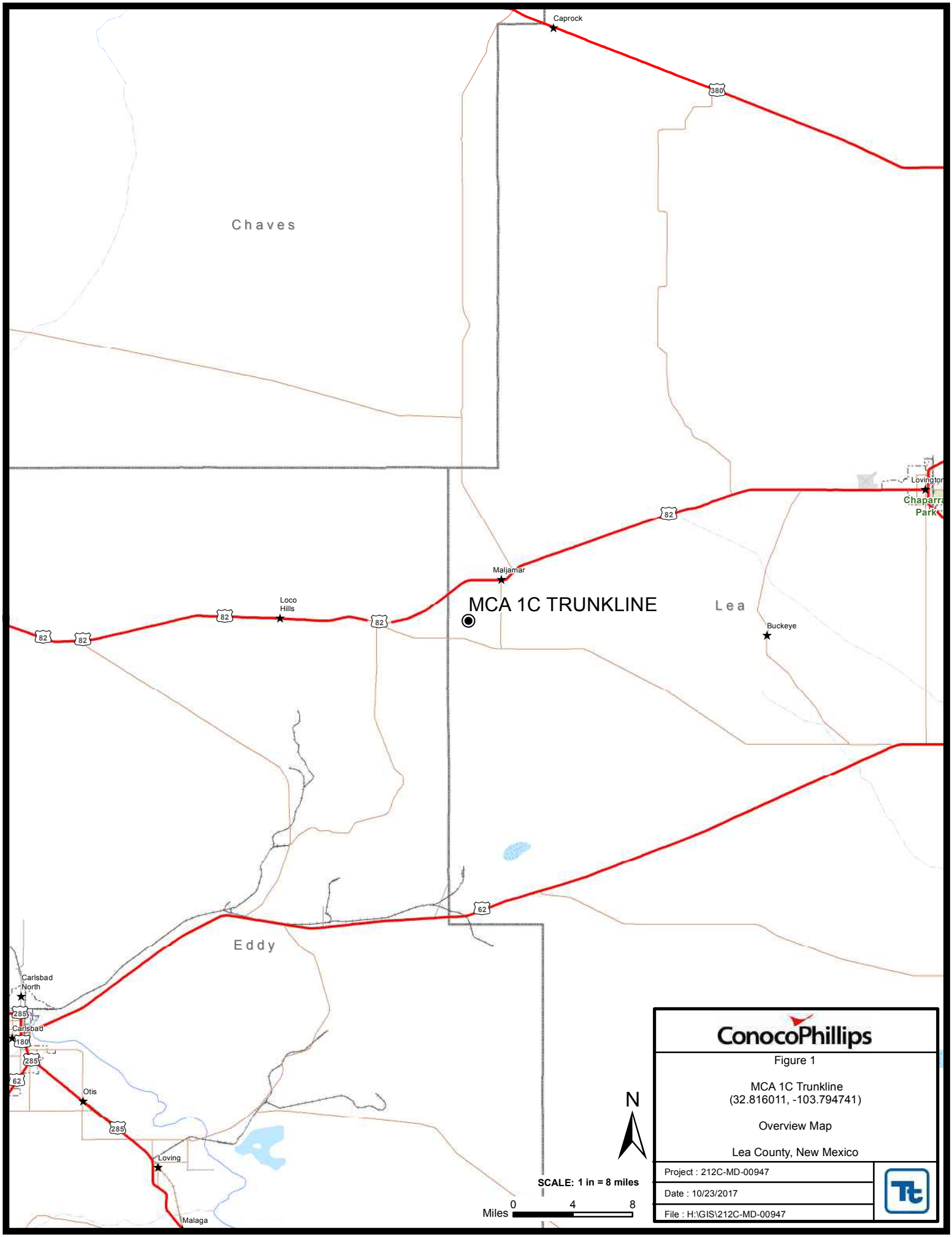
Greg W. Pope, P.G.
Senior Project Manager

cc: Jenni Fortunado – ConocoPhillips

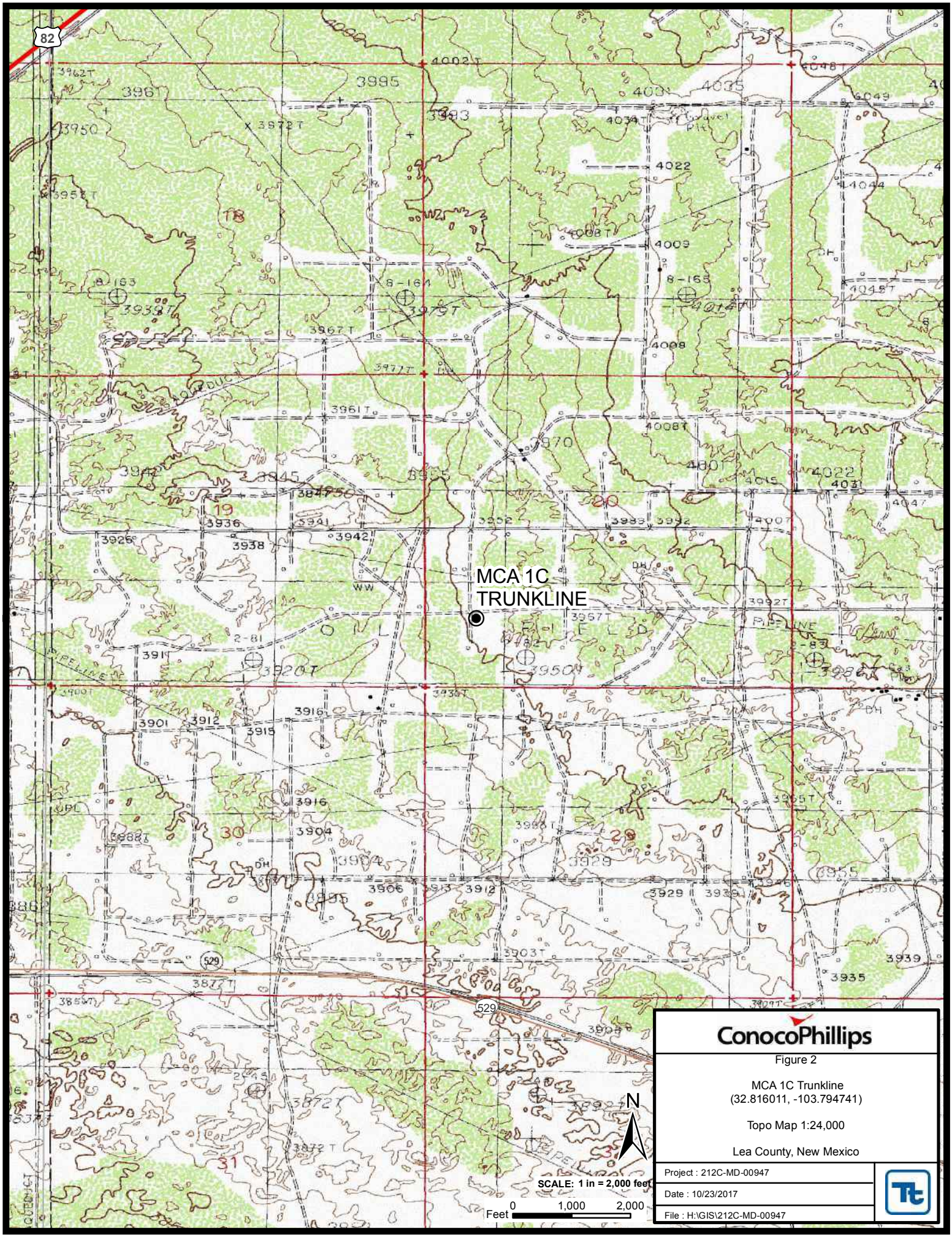
Attachments:

- Figure 1 – Overview Map
- Figure 2 – Topographic Map
- Figure 3 – Spill Assessment Map
- Figure 4 – Excavation Areas and Depths Map
- Table 1 – Summary of Soil Boring Assessment Analysis
- Table 2 – Summary of Soil Excavation Sample Locations
- Photos – Documentation of Soil Excavation Activities
- Appendix A – NMOCD C-141 Forms
- Appendix B – NMOSE Groundwater Data
- Appendix C – Laboratory Analytical Data
- Appendix D – Waste Manifests

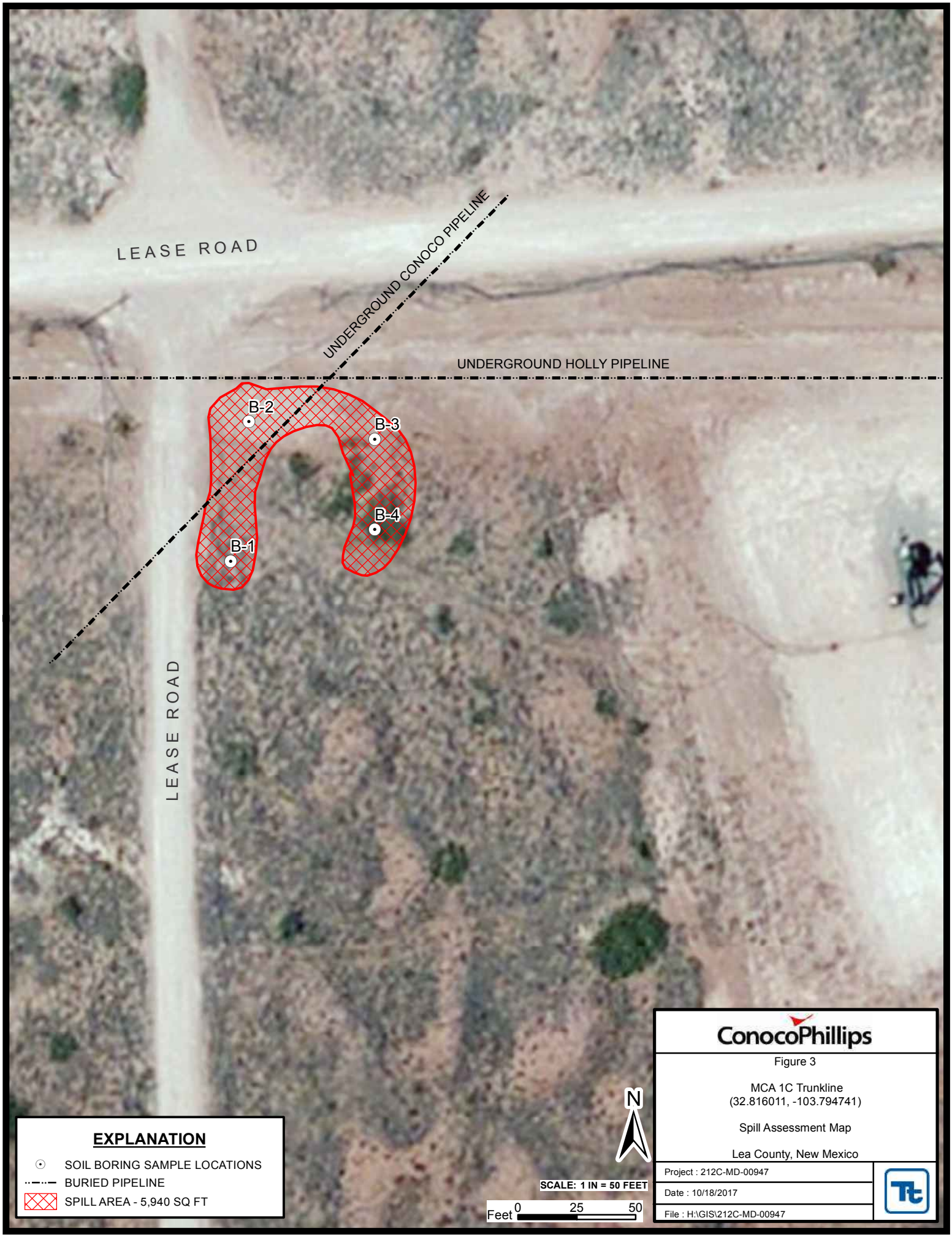
Figures

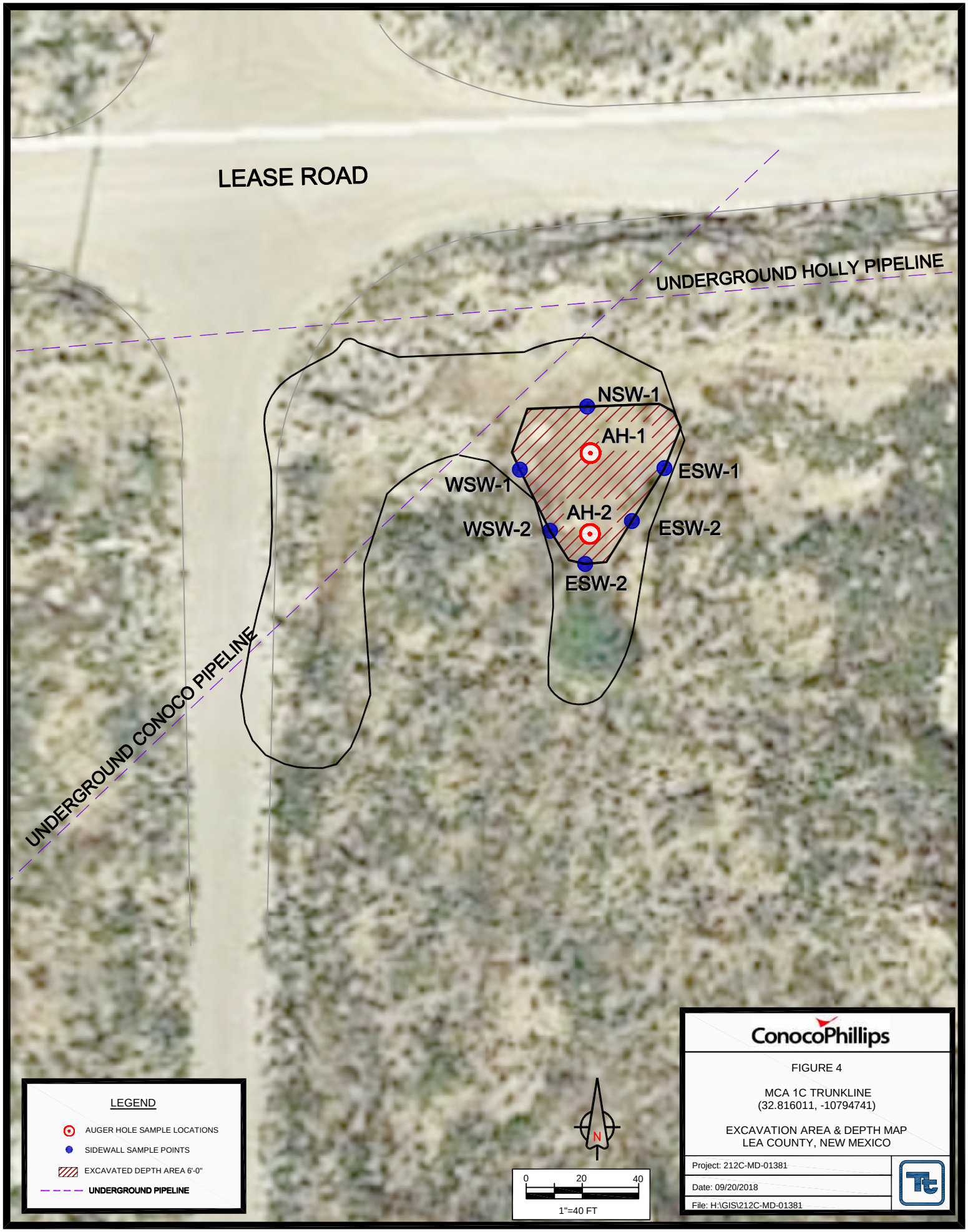


Mapped By: Isabel Marmolejo



Mapped By: Isabel Marmolejo


LEASE ROAD
UNDERGROUND CONOCO PIPELINE
UNDERGROUND HOLLY PIPELINE
B-1
B-2
B-3
B-4
LEASE ROAD
EXPLANATION
SOIL BORING SAMPLE LOCATIONS
BURIED PIPELINE
SPILL AREA - 5,940 SQ FT
N
SCALE: 1 IN = 50 FEET
Feet 0 25 50
ConocoPhillips
Figure 3
MCA 1C Trunkline
(32.816011, -103.794741)
Spill Assessment Map
Lea County, New Mexico
Project : 212C-MD-00947
Date : 10/18/2017
File : H:\GIS\212C-MD-00947
Mapped By: Isabel Marmolejo


LEASE ROAD
UNDERGROUND HOLLY PIPELINE
UNDERGROUND CONOCO PIPELINE
NSW-1
AH-1
ESW-1
WSW-1
AH-2
WSW-2
ESW-2
ESW-2
LEGEND
AUGER HOLE SAMPLE LOCATIONS
SIDEWALL SAMPLE POINTS
EXCAVATED DEPTH AREA 6'-0"
UNDERGROUND PIPELINE
N
0
20
40
1"=40 FT
ConocoPhillips
FIGURE 4
MCA 1C TRUNKLINE
(32.816011, -10794741)
EXCAVATION AREA & DEPTH MAP
LEA COUNTY, NEW MEXICO
Project: 212C-MD-01381
Date: 09/20/2018
File: H:\GIS\212C-MD-01381

Tables

Table 1
Summary of Soil Boring Assessment Analysis
ConocoPhillips
MCA 1C 1RP-5141
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		Field PID (PPM)	TPH GRO mg/kg	Organics			BTEX					Chlorides	
			In-situ	Removed			Diesel Range Organics mg/kg	Oil Range Organics mg/kg	Total Organics	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	Field Chlorides (PPM)	Chlorides (mg/kg)
B-1	08/31/17	0-1	X		415	<12.7	1,130	1,480	2,610	<0.0026	<0.0026	<0.0026	<0.0077	<0.0077	53.5	<125
	"	2-3	X		362	-	-	-	-	-	-	-	-	-	43	<125
	"	4-5	X		434	<11.9	34.3	23.3	57.6	<0.0024	<0.0024	<0.0024	<0.0071	<0.0071	281	161
	"	6-7	X		232	-	-	-	-	-	-	-	-	-	197	<129
	"	14-15	X		212	<12.8	<6.3	17.2	17.2	<0.0025	<0.0025	<0.0025	<0.0076	<0.0076	241	<124
B-2	08/31/17	0-1	X		48.0	<10.1	1,710	2,050	3,760	<0.0020	<0.0020	<0.0020	<0.0006	<0.0006	441	179
	"	2-3	X		51.4	-	-	-	-	-	-	-	-	-	1410	338
	"	4-5	X		17.3	<10.7	1,820	1,350	3,170	<0.0022	<0.0022	<0.0022	<0.0065	<0.0065	379	169
	"	6-7	X		3.0	<10.4	<5.2	6.3	6.3	<0.0021	<0.0021	<0.0021	<0.0063	<0.0063	251	125
	"	16-17	X		1.2	<10.3	<5.1	6.4	6.4	<0.0021	<0.0021	<0.0021	<0.0063	<0.0063	109	<103
B-3	08/31/17	0-1	X		579	-	-	-	-	-	-	-	-	-	728	168
	"	2-3	X		800	224	6,060	3,000	9,284	<0.010	0.17	6.1	6.9	13.2	1.24	769
	"	4-5	X		90.3	24.1	676	440	1,140	<0.012	<0.012	<0.012	<0.035	<0.035	1.51	1,530
	"	6-7	X		80.3	-	-	-	-	-	-	-	-	-	1.49	204
	"	8-9	X		45.7	-	-	-	-	-	-	-	-	-	195	335
	"	9-10	X		53.8	<11.4	83.9	57.8	141.7	<0.0023	<0.0023	<0.0023	<0.0068	<0.0068	379	209
	"	19-20	X		10.4	<10.4	39.2	24	63.0	<0.0021	<0.0021	<0.0021	<0.0063	<0.0063	217	<106
B-4	08/31/17	0-1	X		270	-	-	-	-	-	-	-	-	-	35.7	<112
	"	2-3	X		1506	772	6,440	3,860	11,072	<0.011	0.32	2.3	5.4	8.0	46	<108
	"	4-5	X		227	31.1	642	443	1,116	<0.0023	0.0052	0.030	0.066	0.1012	4600	1,650
	"	6-7	X		70.4	-	-	-	-	-	-	-	-	-	205	<109
	"	8-9	X		87.4	-	-	-	-	-	-	-	-	-	181	<127
	"	9-10	X		2.3	<10.9	10.8	7.8	18.6	<0.0022	<0.0022	<0.0022	<0.0065	<0.0065	165	<108
	"	19-20	X		2.0	<10.5	98.5	60.9	159.4	<0.0021	<0.0021	<0.0021	<0.0064	<0.0064	117	<102

(-) Not Analyzed
Proposed Excavation Depth

Table 2
Summary of Soil Excavation Sample Locations
ConocoPhillips
MCA 1C 1RP-5141
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		Field PID (PPM)	TPH				BTEX					Chlorides	
			In Situ	Removed		TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	Field Chloride (PPM)	Chloride (mg/kg)
AH-1	8/24/2018	6'		X	289	0.0528 J	12.1	2.71 J	14.86	<0.00131	<0.00654	<0.00327	<0.00851	<0.00851	3,440	**5,910**
	8/24/2018	7'	X		13.0	<0.0249	4.69	1.04 J	5.73	<0.00115	<0.00573	<0.00287	<0.00745	<0.00745	1,060	**1,200**
AH-2	8/24/2018	6'		X	1,607	3,140	7,060	1,580	**11,780**	2.16	76.7	82.6	132	**293.46**	1,800	**2,190**
	8/24/2018	7'	X		31.0	0.0698 J	6.78 J3 J6	1.14 J	7.99	<0.00111	0.00250 J	0.00371	0.00575 J	0.012	2,400	**2,150**
	10/15/2018	7'	X		36.3	0.0443 B J	<4.46	<4.46	0.044	-	-	-	-	-	1,080	302
NSW-1	8/24/2018		X		> 4.0	<0.114	<4.55	<4.55	<4.55	<0.00114	<0.00569	<0.00285	<0.00740	<0.00740	-	73.1
SSW-1	8/24/2018		X		4.9	<0.104	<4.17	0.789 J	0.0789	<0.00104	<0.00521	<0.00260	<0.00677	<0.00677	170	105
ESW-1	08/24/18		X		3.8	<0.104	10.1	9.62	19.72	<0.00104	<0.00518	<0.00259	<0.00674	<0.00674	21.0	56.3
ESW-2	08/24/18		X		4.0	<0.105	4.34	1.58 J	5.92	<0.00105	<0.00524	<0.00262	<0.00681	<0.00681	27.0	37.1
WSW-1	08/24/18		X		7.0	<0.104	<4.16	0.771 J	0.771	<0.00104	<0.00520	<0.00260	<0.00676	<0.00676	73.5	51.2
WSW-2	08/24/18		X		3.9	<0.105	1.80 J	1.58 J	3.38	<0.00105	<0.00523	<0.00261	<0.00680	<0.00680	290	217

NOTES:

ft	Feet	DRO	Diesel Range Organics
PPM	Parts per million	ORO	Oil Range Organics
mg/kg	Milligrams per kilogram	J	The identification of the analyte is acceptable; the reported value is an estimate.
TPH	Total Petroleum Hydrocarbons	B	The associated batch QC was outside the established quality control range for precision
GRO	Gasoline Range Organics	J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low

Photos

ConocoPhillips
MCA 1C
Lea County, New Mexico

View South – Area of SSW-1

View West – Area of WSW-1, WSW-2

ConocoPhillips
MCA 1C
Lea County, New Mexico

View North – Area of NSW-1, AH-1

View East – Area being backfilled with liner installed

ConocoPhillips
MCA 1C
Lea County, New Mexico

View East - Backfilled area

View East – The areas cleanup completed

Appendix A

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 1C**	Facility Type: **Flow line**

Surface Owner: Federal	Mineral Owner: N/A	API No. 30-025-23706

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	20	17S	32E					**Lea**

Latitude 32.8131905 **Longitude** -103.7842789 NAD83

NATURE OF RELEASE

Type of Release: **1.8 BBL Produce Water & 9.2 Oil**	Volume of Release: **11 BBL**	Volume Recovered: 8 BBL
Source of Release: **Flow line**	Date and Hour of Occurrence **11/11/2016 1030hrs**	Date and Hour of Discovery **SAME**
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom? Kristen Lynch	
By Whom? **Cullen Rosine**	Date and Hour: **11/15/16 1235 hrs via email**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken. *

On November 11, 2016 at 1030hrs a flow line leak occurred on the MCA 1C header trunk line. Total spill volume was 11 BBL of which 8 BBL were recovered. Spill site will be remediated according to NMOCD and COPC guidelines.

Describe Area Affected and Cleanup Action Taken. *

Area 1: 93ft x 51ft x 2 inches
Area 2: 120ft x 15ft x 1 inch

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: Cullen Rosine	OIL CONSERVATION DIVISION	
Printed Name: Cullen Rosine	Approved by Environmental Specialist:	
Title:HSE Specialist	Approval Date:	Expiration Date:
E-mail Address: ***Cullen.j.rosine@cop.com***	Conditions of Approval:	Attached ☐
Date: 11/15/16 Phone:575-391-3133		

* Attach Additional Sheets If Necessary

nOY1821258273

1RP-5141

pOY1821258767

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-5141
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: Jenni Fortunato Title: Program Manager, Risk Management & Remediation

Signature:  Date: 3/12/2019

email: jenni.fortunato@cop.com Telephone: 832-486-2477

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: _____ Date: _____

Printed Name: _____ Title: _____

Appendix B

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 20 **Township:** 17S **Range:** 32E

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	Depth Well	Depth Water	Water Column
L 03980		L	LE	2	2	2	01	17S	32E	620466	3637594*	270	200	70
L 03980 S		L	LE	4	4	4	02	17S	32E	618870	3636170*	255	179	76
L 03980 S2		L	LE	3	2	3	01	17S	32E	619470	3636581*	225	175	50
L 04019		L	LE	4	3	4	02	17S	32E	618468	3636166*	182		
L 04020		L	LE	3	3	4	02	17S	32E	618268	3636166*	200		
L 04021	R	L	LE	3	4	4	02	17S	32E	618670	3636170*	190		
L 04021 POD3		L	LE		3	4	03	17S	32E	616761	3636252*	247		
L 04021 S		L	LE	2	4	4	03	17S	32E	617262	3636354*	260		
L 13047 POD1		L	LE				11	17S	32E	618187	3635254*	140		
L 13050 POD1		L	LE	2	2	1	10	17S	32E	616463	3635945*	156	132	24
RA 08855			LE	4	1	1	10	17S	32E	616061	3635742*	158		
RA 09505			LE	2	2	1	10	17S	32E	616462	3635944	147		
RA 09505 S			LE	2	2	1	10	17S	32E	616463	3635945*	144		
RA 10175			LE		2	1	28	17S	32E	614814	3631005*	158		
RA 11684 POD1			LE	1	1	4	11	17S	32E	618216	3635124	275		
RA 11684 POD2			LE	1	1	4	11	17S	32E	618313	3635248	275		
RA 11684 POD3			LE	3	3	1	11	17S	32E	618262	3635371	275		
RA 11684 POD4			LE	1	3	2	11	17S	32E	618334	3635521	275		
RA 11684 POD5			LE	3	1	4	11	17S	32E	618353	3635047	275		
RA 11734 POD1			LE	2	2	1	10	17S	32E	616556	3635929	165		
RA 11911 POD1			LE	1	3	1	24	17S	32E	619192	3632296	35		
RA 12020 POD1			LE	2	2	1	28	17S	32E	614828	3630954	120	81	39
RA 12042 POD1			LE	2	2	1	28	17S	32E	614891	3631181	400		

***UTM location was derived from PLSS - see Help**

Average Depth to Water: **153 feet**

Minimum Depth: **81 feet**

Maximum Depth: **200 feet**

Record Count: 23

PLSS Search:

Township: 17S **Range:** 32E

Appendix C

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

September 06, 2018

ConocoPhillips - Tetra Tech

Sample Delivery Group:	L1021250
Samples Received:	08/28/2018
Project Number:	212C-MD-01381
Description:	MCA 1C Lea County, NM

Report To: Kayla Taylor
4001 N. Big Spring St., Ste. 401
Midland, TX 79705

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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NSW-1 L1021250-01 Solid

Collected by	Collected date/time	Received date/time
	08/22/18 12:10	08/28/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1160201	1	09/04/18 09:35	09/04/18 09:43	JD
Wet Chemistry by Method 300.0	WG1158706	1	08/28/18 22:18	09/01/18 00:40	MCG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1159479	1	08/29/18 12:01	08/30/18 22:17	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1160396	1	08/29/18 12:01	09/02/18 05:43	JHH
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1159858	1	09/03/18 19:40	09/05/18 20:19	MTJ

SSW-1 L1021250-02 Solid

Collected by	Collected date/time	Received date/time
	08/22/18 12:32	08/28/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1160201	1	09/04/18 09:35	09/04/18 09:43	JD
Wet Chemistry by Method 300.0	WG1158706	1	08/28/18 22:18	09/01/18 00:49	MCG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1160015	1	08/29/18 12:01	08/31/18 11:20	RAS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1160396	1	08/29/18 12:01	09/02/18 06:03	JHH
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1159858	1	09/03/18 19:40	09/05/18 20:32	MTJ

ESW-1 L1021250-03 Solid

Collected by	Collected date/time	Received date/time
	08/22/18 09:31	08/28/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1160201	1	09/04/18 09:35	09/04/18 09:43	JD
Wet Chemistry by Method 300.0	WG1158706	1	08/28/18 22:18	09/01/18 00:58	MCG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1159479	1	08/29/18 12:01	08/30/18 23:29	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1160396	1	08/29/18 12:01	09/02/18 06:23	JHH
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1159858	1	09/03/18 19:40	09/05/18 22:35	MTJ

ESW-2 L1021250-04 Solid

Collected by	Collected date/time	Received date/time
	08/22/18 10:10	08/28/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1160201	1	09/04/18 09:35	09/04/18 09:43	JD
Wet Chemistry by Method 300.0	WG1158742	1	08/29/18 14:05	08/30/18 00:18	ELN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1159479	1	08/29/18 12:01	08/31/18 02:28	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1160396	1	08/29/18 12:01	09/02/18 06:43	JHH
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1159858	1	09/03/18 19:40	09/05/18 20:45	MTJ

WSW-1 L1021250-05 Solid

Collected by	Collected date/time	Received date/time
	08/22/18 11:20	08/28/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1160201	1	09/04/18 09:35	09/04/18 09:43	JD
Wet Chemistry by Method 300.0	WG1158742	1	08/29/18 14:05	08/30/18 00:27	ELN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1159479	1	08/29/18 12:01	08/31/18 02:49	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1160396	1	08/29/18 12:01	09/02/18 07:04	JHH
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1159858	1	09/03/18 19:40	09/05/18 20:58	MTJ

WSW-2 L1021250-06 Solid

Collected by	Collected date/time	Received date/time
	08/22/18 11:28	08/28/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1160203	1	09/04/18 09:20	09/04/18 09:32	JD
Wet Chemistry by Method 300.0	WG1158742	1	08/29/18 14:05	08/30/18 00:36	ELN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1160015	1	08/29/18 12:01	08/31/18 11:42	RAS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1160396	1	08/29/18 12:01	09/02/18 07:24	JHH
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1159858	1	09/03/18 19:40	09/05/18 21:12	MTJ

AH-1 (6') L1021250-07 Solid

Collected by	Collected date/time	Received date/time
	08/23/18 10:50	08/28/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1160203	1	09/04/18 09:20	09/04/18 09:32	JD
Wet Chemistry by Method 300.0	WG1158742	20	08/29/18 14:05	08/30/18 00:45	ELN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1159479	1	08/29/18 12:01	08/31/18 03:32	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1160677	1	08/29/18 12:01	09/01/18 21:55	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1159858	1	09/03/18 19:40	09/05/18 21:26	MTJ

AH-1 (7') L1021250-08 Solid

Collected by	Collected date/time	Received date/time
	08/23/18 11:31	08/28/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1160203	1	09/04/18 09:20	09/04/18 09:32	JD
Wet Chemistry by Method 300.0	WG1158742	5	08/29/18 14:05	08/30/18 01:02	ELN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1159479	1	08/29/18 12:01	08/31/18 03:54	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1160677	1	08/29/18 12:01	09/01/18 22:14	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1159858	1	09/03/18 19:40	09/05/18 21:40	MTJ

AH-2 (6') L1021250-09 Solid

Collected by	Collected date/time	Received date/time
	08/23/18 10:55	08/28/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1160203	1	09/04/18 09:20	09/04/18 09:32	JD
Wet Chemistry by Method 300.0	WG1158742	5	08/29/18 14:05	08/30/18 01:11	ELN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1159479	500	08/29/18 12:01	08/30/18 21:34	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1160677	40	08/29/18 12:01	09/01/18 22:33	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1159858	10	09/03/18 19:40	09/05/18 22:48	MTJ
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1159858	50	09/03/18 19:40	09/05/18 23:15	MTJ

AH-2 (7') L1021250-10 Solid

Collected by	Collected date/time	Received date/time
	08/23/18 11:40	08/28/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1160203	1	09/04/18 09:20	09/04/18 09:32	JD
Wet Chemistry by Method 300.0	WG1158742	5	08/29/18 14:05	08/30/18 01:20	ELN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1159479	1	08/29/18 12:01	08/30/18 21:56	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1160677	1	08/29/18 12:01	09/01/18 22:53	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1159858	1	09/03/18 19:40	09/05/18 21:54	MTJ

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.8		1	09/04/2018 09:43	WG1160201

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	73.1		0.905	10.0	11.4	1	09/01/2018 00:40	WG1158706

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0247	0.100	0.114	1	08/30/2018 22:17	WG1159479
(S) a,a,a-Trifluorotoluene(FID)	*104*				*77.0-120*		*08/30/2018 22:17*	WG1159479

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000455	0.00100	0.00114	1	09/02/2018 05:43	WG1160396
Toluene	U		0.00142	0.00500	0.00569	1	09/02/2018 05:43	WG1160396
Ethylbenzene	U		0.000603	0.00250	0.00285	1	09/02/2018 05:43	WG1160396
Total Xylenes	U		0.00544	0.00650	0.00740	1	09/02/2018 05:43	WG1160396
(S) Toluene-d8	*106*				*75.0-131*		*09/02/2018 05:43*	WG1160396
(S) Dibromofluoromethane	*99.6*				*65.0-129*		*09/02/2018 05:43*	WG1160396
(S) a,a,a-Trifluorotoluene	*105*				*80.0-120*		*09/02/2018 05:43*	WG1160396
(S) 4-Bromofluorobenzene	*103*				*67.0-138*		*09/02/2018 05:43*	WG1160396

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.83	4.00	4.55	1	09/05/2018 20:19	WG1159858
C28-C40 Oil Range	U		0.312	4.00	4.55	1	09/05/2018 20:19	WG1159858
(S) o-Terphenyl	*56.3*				*18.0-148*		*09/05/2018 20:19*	WG1159858

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.0		1	09/04/2018 09:43	WG1160201

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	105		0.828	10.0	10.4	1	09/01/2018 00:49	WG1158706

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0226	0.100	0.104	1	08/31/2018 11:20	WG1160015
(S) a,a,a-Trifluorotoluene(FID)	*97.6*				*77.0-120*		*08/31/2018 11:20*	WG1160015

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000417	0.00100	0.00104	1	09/02/2018 06:03	WG1160396
Toluene	U		0.00130	0.00500	0.00521	1	09/02/2018 06:03	WG1160396
Ethylbenzene	U		0.000552	0.00250	0.00260	1	09/02/2018 06:03	WG1160396
Total Xylenes	U		0.00498	0.00650	0.00677	1	09/02/2018 06:03	WG1160396
(S) Toluene-d8	*106*				*75.0-131*		*09/02/2018 06:03*	WG1160396
(S) Dibromofluoromethane	*98.8*				*65.0-129*		*09/02/2018 06:03*	WG1160396
(S) a,a,a-Trifluorotoluene	*103*				*80.0-120*		*09/02/2018 06:03*	WG1160396
(S) 4-Bromofluorobenzene	*102*				*67.0-138*		*09/02/2018 06:03*	WG1160396

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.68	4.00	4.17	1	09/05/2018 20:32	WG1159858
C28-C40 Oil Range	0.789	J	0.285	4.00	4.17	1	09/05/2018 20:32	WG1159858
(S) o-Terphenyl	*81.7*				*18.0-148*		*09/05/2018 20:32*	WG1159858

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.5		1	09/04/2018 09:43	WG1160201

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	56.3		0.824	10.0	10.4	1	09/01/2018 00:58	WG1158706

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0225	0.100	0.104	1	08/30/2018 23:29	WG1159479
(S) a,a,a-Trifluorotoluene(FID)	*104*				*77.0-120*		*08/30/2018 23:29*	WG1159479

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000415	0.00100	0.00104	1	09/02/2018 06:23	WG1160396
Toluene	U		0.00130	0.00500	0.00518	1	09/02/2018 06:23	WG1160396
Ethylbenzene	U		0.000549	0.00250	0.00259	1	09/02/2018 06:23	WG1160396
Total Xylenes	U		0.00496	0.00650	0.00674	1	09/02/2018 06:23	WG1160396
(S) Toluene-d8	*106*				*75.0-131*		*09/02/2018 06:23*	WG1160396
(S) Dibromofluoromethane	*98.2*				*65.0-129*		*09/02/2018 06:23*	WG1160396
(S) a,a,a-Trifluorotoluene	*104*				*80.0-120*		*09/02/2018 06:23*	WG1160396
(S) 4-Bromofluorobenzene	*105*				*67.0-138*		*09/02/2018 06:23*	WG1160396

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	10.1		1.67	4.00	4.15	1	09/05/2018 22:35	WG1159858
C28-C40 Oil Range	9.62		0.284	4.00	4.15	1	09/05/2018 22:35	WG1159858
(S) o-Terphenyl	*88.8*				*18.0-148*		*09/05/2018 22:35*	WG1159858

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.4		1	09/04/2018 09:43	WG1160201

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	37.1		0.834	10.0	10.5	1	08/30/2018 00:18	WG1158742

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0227	0.100	0.105	1	08/31/2018 02:28	WG1159479
(S) a,a,a-Trifluorotoluene(FID)	*104*				*77.0-120*		*08/31/2018 02:28*	WG1159479

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000419	0.00100	0.00105	1	09/02/2018 06:43	WG1160396
Toluene	U		0.00131	0.00500	0.00524	1	09/02/2018 06:43	WG1160396
Ethylbenzene	U		0.000556	0.00250	0.00262	1	09/02/2018 06:43	WG1160396
Total Xylenes	U		0.00501	0.00650	0.00681	1	09/02/2018 06:43	WG1160396
(S) Toluene-d8	*107*				*75.0-131*		*09/02/2018 06:43*	WG1160396
(S) Dibromofluoromethane	*99.2*				*65.0-129*		*09/02/2018 06:43*	WG1160396
(S) a,a,a-Trifluorotoluene	*107*				*80.0-120*		*09/02/2018 06:43*	WG1160396
(S) 4-Bromofluorobenzene	*103*				*67.0-138*		*09/02/2018 06:43*	WG1160396

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.34		1.69	4.00	4.19	1	09/05/2018 20:45	WG1159858
C28-C40 Oil Range	1.58	J	0.287	4.00	4.19	1	09/05/2018 20:45	WG1159858
(S) o-Terphenyl	*84.2*				*18.0-148*		*09/05/2018 20:45*	WG1159858

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.1		1	09/04/2018 09:43	WG1160201

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	51.2		0.827	10.0	10.4	1	08/30/2018 00:27	WG1158742

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0226	0.100	0.104	1	08/31/2018 02:49	WG1159479
(S) a,a,a-Trifluorotoluene(FID)	*104*				*77.0-120*		*08/31/2018 02:49*	WG1159479

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000416	0.00100	0.00104	1	09/02/2018 07:04	WG1160396
Toluene	U		0.00130	0.00500	0.00520	1	09/02/2018 07:04	WG1160396
Ethylbenzene	U		0.000551	0.00250	0.00260	1	09/02/2018 07:04	WG1160396
Total Xylenes	U		0.00497	0.00650	0.00676	1	09/02/2018 07:04	WG1160396
(S) Toluene-d8	*107*				*75.0-131*		*09/02/2018 07:04*	WG1160396
(S) Dibromofluoromethane	*99.2*				*65.0-129*		*09/02/2018 07:04*	WG1160396
(S) a,a,a-Trifluorotoluene	*104*				*80.0-120*		*09/02/2018 07:04*	WG1160396
(S) 4-Bromofluorobenzene	*106*				*67.0-138*		*09/02/2018 07:04*	WG1160396

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.67	4.00	4.16	1	09/05/2018 20:58	WG1159858
C28-C40 Oil Range	0.771	J	0.285	4.00	4.16	1	09/05/2018 20:58	WG1159858
(S) o-Terphenyl	*87.9*				*18.0-148*		*09/05/2018 20:58*	WG1159858

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.6		1	09/04/2018 09:32	WG1160203

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	217		0.832	10.0	10.5	1	08/30/2018 00:36	WG1158742

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0227	0.100	0.105	1	08/31/2018 11:42	WG1160015
(S) a,a,a-Trifluorotoluene(FID)	*97.4*				*77.0-120*		*08/31/2018 11:42*	WG1160015

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000418	0.00100	0.00105	1	09/02/2018 07:24	WG1160396
Toluene	U		0.00131	0.00500	0.00523	1	09/02/2018 07:24	WG1160396
Ethylbenzene	U		0.000554	0.00250	0.00261	1	09/02/2018 07:24	WG1160396
Total Xylenes	U		0.00500	0.00650	0.00680	1	09/02/2018 07:24	WG1160396
(S) Toluene-d8	*108*				*75.0-131*		*09/02/2018 07:24*	WG1160396
(S) Dibromofluoromethane	*99.2*				*65.0-129*		*09/02/2018 07:24*	WG1160396
(S) a,a,a-Trifluorotoluene	*103*				*80.0-120*		*09/02/2018 07:24*	WG1160396
(S) 4-Bromofluorobenzene	*104*				*67.0-138*		*09/02/2018 07:24*	WG1160396

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.80	J	1.68	4.00	4.18	1	09/05/2018 21:12	WG1159858
C28-C40 Oil Range	1.58	J	0.287	4.00	4.18	1	09/05/2018 21:12	WG1159858
(S) o-Terphenyl	*80.9*				*18.0-148*		*09/05/2018 21:12*	WG1159858

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.4		1	09/04/2018 09:32	WG1160203

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	5910		20.8	10.0	262	20	08/30/2018 00:45	WG1158742

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0528	J	0.0284	0.100	0.131	1	08/31/2018 03:32	WG1159479
(S) a,a,a-Trifluorotoluene(FID)	*103*				*77.0-120*		*08/31/2018 03:32*	WG1159479

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000524	0.00100	0.00131	1	09/01/2018 21:55	WG1160677
Toluene	U		0.00164	0.00500	0.00654	1	09/01/2018 21:55	WG1160677
Ethylbenzene	U		0.000694	0.00250	0.00327	1	09/01/2018 21:55	WG1160677
Total Xylenes	U		0.00626	0.00650	0.00851	1	09/01/2018 21:55	WG1160677
(S) Toluene-d8	*117*				*75.0-131*		*09/01/2018 21:55*	WG1160677
(S) Dibromofluoromethane	*88.8*				*65.0-129*		*09/01/2018 21:55*	WG1160677
(S) a,a,a-Trifluorotoluene	*80.8*				*80.0-120*		*09/01/2018 21:55*	WG1160677
(S) 4-Bromofluorobenzene	*98.4*				*67.0-138*		*09/01/2018 21:55*	WG1160677

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	12.1		2.11	4.00	5.24	1	09/05/2018 21:26	WG1159858
C28-C40 Oil Range	2.71	J	0.359	4.00	5.24	1	09/05/2018 21:26	WG1159858
(S) o-Terphenyl	*50.2*				*18.0-148*		*09/05/2018 21:26*	WG1159858

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.3		1	09/04/2018 09:32	WG1160203

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	1200		4.56	10.0	57.3	5	08/30/2018 01:02	WG1158742

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0249	0.100	0.115	1	08/31/2018 03:54	WG1159479
(S) a,a,a-Trifluorotoluene(FID)	*104*				*77.0-120*		*08/31/2018 03:54*	WG1159479

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000458	0.00100	0.00115	1	09/01/2018 22:14	WG1160677
Toluene	U		0.00143	0.00500	0.00573	1	09/01/2018 22:14	WG1160677
Ethylbenzene	U		0.000607	0.00250	0.00287	1	09/01/2018 22:14	WG1160677
Total Xylenes	U		0.00548	0.00650	0.00745	1	09/01/2018 22:14	WG1160677
(S) Toluene-d8	*119*				*75.0-131*		*09/01/2018 22:14*	WG1160677
(S) Dibromofluoromethane	*86.0*				*65.0-129*		*09/01/2018 22:14*	WG1160677
(S) a,a,a-Trifluorotoluene	*80.3*				*80.0-120*		*09/01/2018 22:14*	WG1160677
(S) 4-Bromofluorobenzene	*101*				*67.0-138*		*09/01/2018 22:14*	WG1160677

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.69		1.85	4.00	4.58	1	09/05/2018 21:40	WG1159858
C28-C40 Oil Range	1.04	J	0.314	4.00	4.58	1	09/05/2018 21:40	WG1159858
(S) o-Terphenyl	*66.5*				*18.0-148*		*09/05/2018 21:40*	WG1159858

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.2		1	09/04/2018 09:32	WG1160203

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	2190		4.61	10.0	58.0	5	08/30/2018 01:11	WG1158742

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	3140		12.6	0.100	58.0	500	08/30/2018 21:34	WG1159479
(S) a,a,a-Trifluorotoluene(FID)	*102*				*77.0-120*		*08/30/2018 21:34*	WG1159479

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	2.16		0.0186	0.00100	0.0464	40	09/01/2018 22:33	WG1160677
Toluene	76.7		0.0580	0.00500	0.232	40	09/01/2018 22:33	WG1160677
Ethylbenzene	82.6		0.0246	0.00250	0.116	40	09/01/2018 22:33	WG1160677
Total Xylenes	132		0.222	0.00650	0.301	40	09/01/2018 22:33	WG1160677
(S) Toluene-d8	*114*				*75.0-131*		*09/01/2018 22:33*	WG1160677
(S) Dibromofluoromethane	*97.9*				*65.0-129*		*09/01/2018 22:33*	WG1160677
(S) a,a,a-Trifluorotoluene	*84.8*				*80.0-120*		*09/01/2018 22:33*	WG1160677
(S) 4-Bromofluorobenzene	*98.6*				*67.0-138*		*09/01/2018 22:33*	WG1160677

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	7060		93.3	4.00	232	50	09/05/2018 23:15	WG1159858
C28-C40 Oil Range	1580		3.18	4.00	46.4	10	09/05/2018 22:48	WG1159858
(S) o-Terphenyl	*0.000*	J7			*18.0-148*		*09/05/2018 23:15*	WG1159858
(S) o-Terphenyl	*686*	J1			*18.0-148*		*09/05/2018 22:48*	WG1159858

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.4		1	09/04/2018 09:32	WG1160203

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	2150		4.40	10.0	55.3	5	08/30/2018 01:20	WG1158742

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0698	J	0.0240	0.100	0.111	1	08/30/2018 21:56	WG1159479
(S) a,a,a-Trifluorotoluene(FID)	*103*				*77.0-120*		*08/30/2018 21:56*	WG1159479

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000443	0.00100	0.00111	1	09/01/2018 22:53	WG1160677
Toluene	0.00250	J	0.00138	0.00500	0.00553	1	09/01/2018 22:53	WG1160677
Ethylbenzene	0.00371		0.000586	0.00250	0.00277	1	09/01/2018 22:53	WG1160677
Total Xylenes	0.00575	J	0.00529	0.00650	0.00719	1	09/01/2018 22:53	WG1160677
(S) Toluene-d8	*116*				*75.0-131*		*09/01/2018 22:53*	WG1160677
(S) Dibromofluoromethane	*88.5*				*65.0-129*		*09/01/2018 22:53*	WG1160677
(S) a,a,a-Trifluorotoluene	*81.4*				*80.0-120*		*09/01/2018 22:53*	WG1160677
(S) 4-Bromofluorobenzene	*98.9*				*67.0-138*		*09/01/2018 22:53*	WG1160677

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	6.78	J3 J6	1.78	4.00	4.43	1	09/05/2018 21:54	WG1159858
C28-C40 Oil Range	1.14	J	0.303	4.00	4.43	1	09/05/2018 21:54	WG1159858
(S) o-Terphenyl	*75.5*				*18.0-148*		*09/05/2018 21:54*	WG1159858

Method Blank (MB)

(MB) R3339093-1 09/04/18 09:43

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1021250-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1021250-01 09/04/18 09:43 • (DUP) R3339093-3 09/04/18 09:43

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	87.8	87.7	1	0.113		10

Laboratory Control Sample (LCS)

(LCS) R3339093-2 09/04/18 09:43

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3339092-1 09/04/18 09:32

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1021252-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1021252-05 09/04/18 09:32 • (DUP) R3339092-3 09/04/18 09:32

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	87.4	88.0	1	0.650		10

Laboratory Control Sample (LCS)

(LCS) R3339092-2 09/04/18 09:32

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3338911-1 08/31/18 22:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		0.795	10.0

L1021246-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1021246-16 08/31/18 23:30 • (DUP) R3338911-4 08/31/18 23:39

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	28.1	86.5	1	102	J3	20

L1021288-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1021288-12 09/01/18 03:01 • (DUP) R3338911-5 09/01/18 03:09

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	2470	2250	5	9.46		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3338911-2 08/31/18 23:04 • (LCSD) R3338911-3 08/31/18 23:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	200	198	196	98.9	97.9	90.0-110			1.03	20

L1021288-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1021288-02 09/01/18 01:15 • (MS) R3338911-6 09/01/18 12:49 • (MSD) R3338911-7 09/01/18 12:57

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	5.66	45900	41800	33800	0.000	0.000	100	80.0-120	V	J3 V	21.2	20

Method Blank (MB)

(MB) R3337860-1 08/29/18 21:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		0.795	10.0

L1021250-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1021250-07 08/30/18 00:45 • (DUP) R3337860-6 08/30/18 00:53

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	5910	5630	20	4.76		20

L1021301-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1021301-01 08/30/18 01:46 • (DUP) R3337860-7 08/30/18 01:55

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	564	598	1	5.73		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3337860-2 08/29/18 22:06 • (LCSD) R3337860-3 08/29/18 22:15

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	200	197	200	98.5	100	90.0-110			1.69	20

Method Blank (MB)

(MB) R3338213-3 08/30/18 14:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*106*			*77.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3338213-1 08/30/18 13:41 • (LCSD) R3338213-2 08/30/18 14:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.70	5.76	104	105	72.0-127			0.968	20
(S) a,a,a-Trifluorotoluene(FID)				*97.2*	*96.7*	*77.0-120*				

L1021250-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1021250-09 08/30/18 21:34 • (MS) R3338213-4 08/31/18 04:15 • (MSD) R3338213-5 08/31/18 04:37

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	6.38	3140	6300	6500	99.0	105	500	10.0-151		E	3.17	28
(S) a,a,a-Trifluorotoluene(FID)					*99.7*	*99.9*		*77.0-120*				

Method Blank (MB)

(MB) R3338326-3 08/31/18 07:30

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.7*			*77.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3338326-1 08/31/18 06:23 • (LCSD) R3338326-2 08/31/18 06:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.44	5.52	98.9	100	72.0-127			1.39	20
(S) a,a,a-Trifluorotoluene(FID)				*103*	*103*	*77.0-120*				

Method Blank (MB)

(MB) R3339147-3 09/02/18 00:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	*108*			*75.0-131*
(S) Dibromofluoromethane	*98.1*			*65.0-129*
(S) a,a,a-Trifluorotoluene	*107*			*80.0-120*
(S) 4-Bromofluorobenzene	*98.2*			*67.0-138*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3339147-1 09/01/18 23:18 • (LCSD) R3339147-2 09/01/18 23:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.115	0.116	91.9	93.1	70.0-123			1.30	20
Ethylbenzene	0.125	0.118	0.116	94.6	92.9	74.0-126			1.79	20
Toluene	0.125	0.119	0.121	94.9	96.6	75.0-121			1.81	20
Xylenes, Total	0.375	0.315	0.323	84.0	86.1	72.0-127			2.51	20
(S) Toluene-d8				*104*	*107*	*75.0-131*				
(S) Dibromofluoromethane				*105*	*105*	*65.0-129*				
(S) a,a,a-Trifluorotoluene				*104*	*103*	*80.0-120*				
(S) 4-Bromofluorobenzene				*101*	*101*	*67.0-138*				

L1021250-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1021250-06 09/02/18 07:24 • (MS) R3339147-4 09/02/18 07:44 • (MSD) R3339147-5 09/02/18 08:05

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.131	U	0.125	0.113	95.5	86.3	1	10.0-149			10.1	37
Ethylbenzene	0.131	U	0.128	0.128	98.2	97.6	1	10.0-160			0.693	38
Toluene	0.131	U	0.129	0.128	99.0	97.7	1	10.0-156			1.36	38
Xylenes, Total	0.392	U	0.361	0.351	92.0	89.6	1	10.0-160			2.64	38
(S) Toluene-d8					*105*	*109*		*75.0-131*				
(S) Dibromofluoromethane					*102*	*98.1*		*65.0-129*				
(S) a,a,a-Trifluorotoluene					*104*	*106*		*80.0-120*				
(S) 4-Bromofluorobenzene					*98.8*	*105*		*67.0-138*				

Method Blank (MB)

(MB) R3338696-2 09/01/18 18:03

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	*114*			*75.0-131*
(S) Dibromofluoromethane	*89.9*			*65.0-129*
(S) a,a,a-Trifluorotoluene	*85.8*			*80.0-120*
(S) 4-Bromofluorobenzene	*97.8*			*67.0-138*

Laboratory Control Sample (LCS)

(LCS) R3338696-1 09/01/18 17:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.127	102	70.0-123	
Ethylbenzene	0.125	0.116	92.6	74.0-126	
Toluene	0.125	0.117	93.5	75.0-121	
Xylenes, Total	0.375	0.342	91.2	72.0-127	
(S) Toluene-d8			*103*	*75.0-131*	
(S) Dibromofluoromethane			*103*	*65.0-129*	
(S) a,a,a-Trifluorotoluene			*90.4*	*80.0-120*	
(S) 4-Bromofluorobenzene			*98.7*	*67.0-138*	

L1021250-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1021250-09 09/01/18 22:33 • (MS) R3338696-3 09/02/18 01:09 • (MSD) R3338696-4 09/02/18 01:28

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.145	2.16	8.10	8.26	102	105	40	10.0-149			1.91	37
Ethylbenzene	0.145	82.6	85.9	85.7	57.4	53.1	40	10.0-160			0.288	38
Toluene	0.145	76.7	79.2	77.9	43.8	21.4	40	10.0-156			1.66	38
Xylenes, Total	0.435	132	144	144	67.3	68.7	40	10.0-160			0.161	38
(S) Toluene-d8					*110*	*107*		*75.0-131*				
(S) Dibromofluoromethane					*102*	*101*		*65.0-129*				
(S) a,a,a-Trifluorotoluene					*84.5*	*86.9*		*80.0-120*				
(S) 4-Bromofluorobenzene					*107*	*112*		*67.0-138*				

Method Blank (MB)

(MB) R3339438-1 09/05/18 19:41

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*93.4*			*18.0-148*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3339438-2 09/05/18 19:54 • (LCSD) R3339438-3 09/05/18 20:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	50.0	36.6	39.8	73.2	79.6	50.0-150			8.38	20
(S) o-Terphenyl				*86.8*	*93.8*	*18.0-148*				

L1021250-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1021250-10 09/05/18 21:54 • (MS) R3339438-4 09/05/18 22:08 • (MSD) R3339438-5 09/05/18 22:22

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	55.3	6.78	32.1	47.5	45.7	73.5	1	50.0-150	J6	J3	38.7	20
(S) o-Terphenyl					*62.8*	*70.1*		*18.0-148*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MQL (dry)	Method Quantitation Limit.
MQL	Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
SDL	Sample Detection Limit.
SDL (dry)	Sample Detection Limit.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

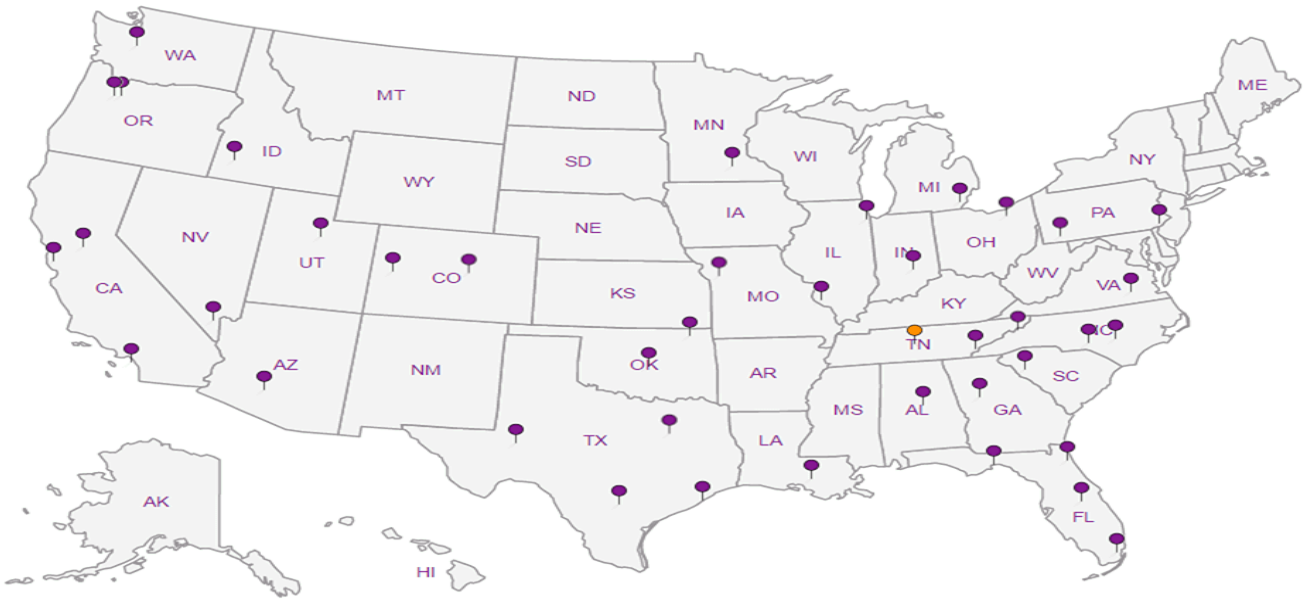
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



11021250

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

900 West Wall St., Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

G005

Client Name:	ConocoPhillips RMR	Site Manager:	Kayla Taylor
Project Name:	MCA 1C		
Project Location: (county, state)	Lea County, New Mexico	Project #:	212C-MD-01381
Invoice to:	Accounts Payable 900 West Wall St, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	Sampler Signature:	
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB #	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2018)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	HNO3	ICE	None	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B (8260B)	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCBs 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	- TPH 8015R		Hold
	NSW-1	8/22/2018	1210		X					1		X														X				X	-01	
	SSW-1	8/22/2018	1232		X					1		X														X				X	-02	
	ESW-1	8/22/2018	0931		X					1		X														X				X	-03	
	ESW-2	8/22/2018	1010		X					1		X														X				X	-04	
	WSW-1	8/22/2018	1120		X					1		X														X				X	-05	
	WSW-2	8/22/2018	1128		X					1		X														X				X	-06	
	AH-1(6')	8/23/2018	1050		X					1		X														X				X	-07	
	AH-1(7')	8/23/2018	1131		X					1		X														X				X	-08	
	AH-2(6')	8/23/2018	1055		X					1		X														X				X	-09	
	AH-2(7')	8/23/2018	1140		X					1		X														X				X	-10	

Relinquished by:	Date: 8-27-18 Time: 1350	Received by:	Date: 8-27-18 Time: 1350
Relinquished by:	Date: Time:	Received by:	Date: Time:
Relinquished by:	Date: Time:	Received by:	Date: Time: 8/28/18 0845

LAB USE ONLY
Sample Temperature: 0.2 -0.2

REMARKS:
- ☐ STANDARD
- ☐ RUSH: Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

OK

(Circle) HAND DELIVERED FEDEX UPS Tracking #: 4430 3429 2650

ORIGINAL COPY

Count = 10 - 4oz

RAD SCREEN: <0.5 mR/hr

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client: COPTETRA		SDG#	L10250
Cooler Received/Opened On:		Temperature:	6 2
Received By: tiana hutchings			
Signature:			

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?			
COC Signed / Accurate?			
Bottles arrive intact?			
Correct bottles used?			
Sufficient volume sent?			
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

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ANALYTICAL REPORT

October 23, 2018

ConocoPhillips - Tetra Tech

Sample Delivery Group:	L1035522
Samples Received:	10/17/2018
Project Number:	212C-MD-01381
Description:	COP MCA-1C

Report To: Kayla Taylor
4001 N. Big Spring St., Ste. 401
Midland, TX 79705

Entire Report Reviewed By:

Chris McCord
Project Manager

TABLE OF CONTENTS

AH-2 (7')-CONFIRMATION L1035522-01 Solid

Collected by	Collected date/time	Received date/time
Devin Dominguez	10/15/18 10:50	10/17/18 08:54

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184404	1	10/22/18 10:40	10/22/18 10:53	JD
Wet Chemistry by Method 300.0	WG1182631	1	10/18/18 11:00	10/18/18 16:11	MAJ
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1183244	1	10/17/18 20:21	10/19/18 10:07	JAH
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1182520	1	10/17/18 21:33	10/18/18 18:56	AAT

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.7		1	10/22/2018 10:53	WG1184404

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	302		0.887	10.0	11.2	1	10/18/2018 16:11	WG1182631

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0443	B J	0.0242	0.100	0.112	1	10/19/2018 10:07	WG1183244
(S) a,a,a-Trifluorotoluene(FID)	*101*				*77.0-120*		*10/19/2018 10:07*	WG1183244

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.80	4.00	4.46	1	10/18/2018 18:56	WG1182520
C28-C40 Oil Range	U		0.306	4.00	4.46	1	10/18/2018 18:56	WG1182520
(S) o-Terphenyl	*73.4*				*18.0-148*		*10/18/2018 18:56*	WG1182520

Method Blank (MB)

(MB) R3353063-1 10/22/18 10:53

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

Laboratory Control Sample (LCS)

(LCS) R3353063-2 10/22/18 10:53

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3352330-1 10/18/18 13:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	1.25	J	0.795	10.0

L1033402-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1033402-01 10/18/18 14:12 • (DUP) R3352330-4 10/18/18 14:20

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	73.9	73.8	1	0.137		20

L1035750-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1035750-17 10/18/18 18:57 • (DUP) R3352330-7 10/18/18 19:06

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1330	1380	5	3.48		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3352330-2 10/18/18 13:34 • (LCSD) R3352330-3 10/18/18 13:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	200	206	193	103	96.7	90.0-110			6.23	20

L1035384-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1035384-02 10/18/18 14:29 • (MS) R3352330-5 10/18/18 14:38 • (MSD) R3352330-6 10/18/18 14:47

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	500	80.8	769	626	138	109	1	80.0-120	J5	J3	20.5	20

Method Blank (MB)

(MB) R3352489-3 10/19/18 03:04

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0306	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*98.6*			*77.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3352489-1 10/19/18 01:57 • (LCSD) R3352489-2 10/19/18 02:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.95	5.88	108	107	72.0-127			1.13	20
(S) a,a,a-Trifluorotoluene(FID)				*103*	*103*	*77.0-120*				

L1035193-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1035193-01 10/19/18 10:29 • (MS) R3352489-4 10/19/18 10:52 • (MSD) R3352489-5 10/19/18 11:14

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	7.59	144	221	180	10.1	4.64	100	10.0-151		J6	20.8	28
(S) a,a,a-Trifluorotoluene(FID)					*107*	*108*		*77.0-120*				

Method Blank (MB)

(MB) R3351816-1 10/18/18 09:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*85.0*			*18.0-148*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3351816-2 10/18/18 10:09 • (LCSD) R3351816-3 10/18/18 10:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	50.0	40.9	38.1	81.8	76.2	50.0-150			7.09	20
(S) o-Terphenyl				*106*	*93.2*	*18.0-148*				

L1035522-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1035522-01 10/18/18 18:56 • (MS) R3351816-4 10/18/18 19:09 • (MSD) R3351816-5 10/18/18 19:23

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	837	U	730	692	87.2	82.7	15	50.0-150			5.34	20
(S) o-Terphenyl					*109*	*108*		*18.0-148*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MQL (dry)	Method Quantitation Limit.
MQL	Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
SDL	Sample Detection Limit.
SDL (dry)	Sample Detection Limit.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

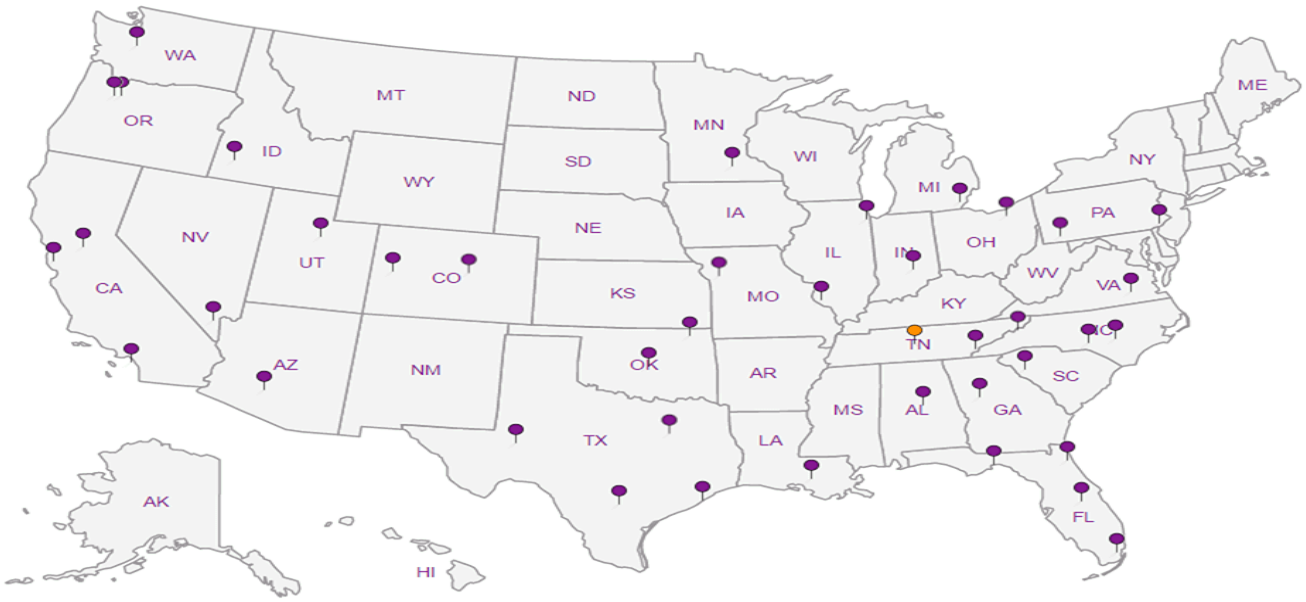
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Analysis Request of Chain of Custody Record

Page 1 of 1

Tetra Tech, Inc.

900 West Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

C240

1035522

Client Name	Conoco Phillips
Site Manager	Kayla Taylor
Project Name	COP MCA-1C
Project Location (county, state)	Lea County, New Mexico
Project #	212C-MD-01381
Invoice to	Accounts Payable 900 West Wall Street Suite 100 Midland, Texas 79701
Receiving Laboratory	Pace Analytical
Sampler Signature	Devin Dominguez
Comments	COPTETRA Acctnum

LAB #	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	HNO3	ICE	None	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	TPH 8015M / GRO - DRO - ORO - MRO	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GCMS Vol 8260B / 624	GCMS Semi Vol 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		Hold
	AH-2 (7')-Confirmation	10/1/2018	1050		X			X		1	N	X		X												X						

ANALYSIS REQUEST
(Circle or Specify Method No.)

Relinquished by:	Date	Time	Received by:	Date:	Time:
Kayla Taylor	10-15-18	1553		10.16.18	1553
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
				10/16/18	0744

ORIGINAL COPY

LAB USE ONLY

Sample Temperature

REMARKS:

- [X] STANDARD
- [ ] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

OK

(Circle) HAND DELIVERED FEDEX UPS Tracking #

1.4+.3=1.7

T.C.-1=402

RAD SCREEN: <0.5 mR/hr

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client:	SDG#	L1035522
Cooler Received/Opened On: 10/17/18	Temperature:	1.7
Received By: Patrick Nshizirungu		
Signature:		

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	✓		
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

Appendix D

TRANSPORTER'S MANIFEST

MANIFEST # 1

SHIPPING FACILITY NAME & ADDRESS: MCA - 1C

Company: Conoco Phillips
Address: 600 N. Dairy Ashford Rd. Houston, Tx 77079
Project Lead: Neal Goates N. Goates@conocophillips.com

LOCATION OF MATERIAL:

Location:
Company:

S 20 T 17S R 32E

Lea County, New Mexico

TRANSPORTER NAME & ADDRESS:

McNabb Partners
4008 N. Grimes #270
Hobbs, NM 88240

DESCRIPTION OF WASTE:

Impacted Soil **Quantity:** 20

FACILITY CONTACT:

Date: 8-20-18 Contact Signature: Joe Tyler
(Agent for ConocoPhillips)

NAME OF TRANSPORTER: (Driver)

Date: 8-20-18 Driver Signature:

DISPOSAL SITE:

Name of Disposal:
Address:
Date: 8-20-18 Representative Signature:

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-922676
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	JOE TAYLOR	Date:	8/20/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	1	Well Ser. #:	999908
Manif. Date:	8/20/2018	Well Name:	MCA
Hauler:	MCNABB PARTNERS	Well #:	1C
Driver	JOSH	Field:	
Truck #	M79	Field #:	
Card #		Rig:	NON-DRILLING
Job Ref #		County	LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast

_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)

Driver/ Agent Signature **R360 Representative Signature**

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____ Date: _____

TRANSPORTER'S MANIFEST

MANIFEST # 2

SHIPPING FACILITY NAME & ADDRESS:

Company: Conoco Phillips
Address: 600 N. Dairy Ashford Rd. Houston, Tx 77079
Project Lead: Neal Goates N. Goates@ conocophillips.com

LOCATION OF MATERIAL:

Location: MCA 1C
Company:

S 20 T 17S R 32E

Lea County, New Mexico

TRANSPORTER NAME & ADDRESS:

McNabb Partners
4008 N. Grimes #270
Hobbs, NM 88240

DESCRIPTION OF WASTE:

Impacted Soil **Quantity:** 20

FACILITY CONTACT:

Date: 8-20-18 Contact Signature: Joe Tyler
(Agent for ConocoPhillips)

NAME OF TRANSPORTER: (Driver)

Date: 8-20-18 Driver Signature: Jerry Hendrix

DISPOSAL SITE:

Name of Disposal:
Address:
Date:

Representative Signature:

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-922680
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	NEAL GOATES	Date:	8/20/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	2	Well Ser. #:	999908
Manif. Date:	8/20/2018	Well Name:	MCA
Hauler:	MCNABB PARTNERS	Well #:	1C
Driver	JR	Field:	
Truck #	M82	Field #:	
Card #		Rig:	NON-DRILLING
Job Ref #		County	LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast

_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)

Driver/ Agent Signature **R360 Representative Signature**

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____ Date: _____

TRANSPORTER'S MANIFEST

MANIFEST # 3

SHIPPING FACILITY NAME & ADDRESS:

Company: Conoco Phillips
Address: 600 N. Dairy Ashford Rd Houston, Tx 77079
Project Lead: Neal Coates

RMR Project - MCA 1C
Acct No: 70200
WBS Element: WA0.000.7067.00.RM
N. Coates@conocophillips.com
Conoco Phillips Co.

LOCATION OF MATERIAL:

Location: MCA-1C
Company: Conoco Phillips

S 20 T 17s R 32e

Lea County, New Mexico

TRANSPORTER NAME & ADDRESS:

McNabb Partners
4008 N. Grimes #270
Hobbs, NM 88240

DESCRIPTION OF WASTE:

Impacted Soil **Quantity:** 18

FACILITY CONTACT:

Date: 8-21-18

Contact Signature:
(Agent for ConocoPhillips)

NAME OF TRANSPORTER: (Driver)

Date: 8-21-18

Driver Signature:

DISPOSAL SITE:

Name of Disposal: R360
Address: P.O. Box 388
Date:

Representative Signature:

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-923038
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	NEAL GOATES	Date:	8/21/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	3	Well Ser. #:	999908
Manif. Date:	8/21/2018	Well Name:	MCA
Hauler:	MCNABB PARTNERS	Well #:	1C
Driver	CLEO	Field:	
Truck #	M32	Field #:	
Card #		Rig:	NON-DRILLING
Job Ref #		County	LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast

_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)

Driver/ Agent Signature **R360 Representative Signature**

_____ _____

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____ Date: _____

TRANSPORTER'S MANIFEST

MANIFEST # 4

SHIPPING FACILITY NAME & ADDRESS: MCA IC - RMR Project Acct. No.: 70200

Company: Conoco Phillips
Address: 600 N. Dairy Ashford Rd Houston, Texas 77079
Project Lead: Neal Goates N Goates @ conocophillips.com
WBS Element: WA0.000.7067.00.RM

LOCATION OF MATERIAL:

Location: MCA - IC Trunkline
Company: Conoco Phillips Co.

S 20 T 17s R 32e

Lea County, New Mexico

TRANSPORTER NAME & ADDRESS:

McNabb Partners
4008 N. Grimes #270
Hobbs, NM 88240

DESCRIPTION OF WASTE:

Impacted Soil **Quantity:** ~ 12

FACILITY CONTACT:

Date: 8-21-18 Contact Signature: (Agent for ConocoPhillips)

NAME OF TRANSPORTER: (Driver)

Date: 8-21-18 Driver Signature:

DISPOSAL SITE:

Name of Disposal: R360
Address: P.O. Box 388
Date: Representative Signature:

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-923040
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	NEAL GOATES	Date:	8/21/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	4	Well Ser. #:	999908
Manif. Date:	8/21/2018	Well Name:	MCA
Hauler:	MCNABB PARTNERS	Well #:	1C
Driver	GUMER R	Field:	
Truck #	M02	Field #:	
Card #		Rig:	NON-DRILLING
Job Ref #		County	LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	12.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis.	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast

_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations. 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261. subpart D. as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

_ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)

Driver/ Agent Signature **R360 Representative Signature**

_____ _____

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____ Date: _____

TRANSPORTER'S MANIFEST

MANIFEST # 6

SHIPPING FACILITY NAME & ADDRESS:

MCA IC - RMR Project
GL Account # 702000

Company: Conoco Phillips Co.
Address: 600 N. Dairy Ashford Rd. Houston, Tx 77079
Project Lead:
Neal Goates N.Goates@conocophillips.com WBS Element W10.000.7067.00.

LOCATION OF MATERIAL:

Location: MCA IC
Company: Conoco Phillips Co.

S 20 T 17S R 32E

Lea County, New Mexico

TRANSPORTER NAME & ADDRESS:

McNabb Partners
4008 N. Grimes #270
Hobbs, NM 88240

DESCRIPTION OF WASTE:

Impacted Soil **Quantity:** 18

FACILITY CONTACT:

Date: 8-22-18 Contact Signature: (Agent for ConocoPhillips) J. Tyler

NAME OF TRANSPORTER: (Driver)

Date: 8-22-18 Driver Signature:

DISPOSAL SITE:

Name of Disposal: R360
Address:
Date: Representative Signature:

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-923258
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	NEAGOATES	Date:	8/22/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	6	Well Ser. #:	999908
Manif. Date:	8/22/2018	Well Name:	MCA
Hauler:	MCNABB PARTNERS	Well #:	1C
Driver	CLEO	Field:	
Truck #	M32	Field #:	
Card #		Rig:	NON-DRILLING
Job Ref #		County	LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt was:

_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)

Driver/ Agent Signature **R360 Representative Signature**

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____ Date: _____

TRANSPORTER'S MANIFEST

MANIFEST # 7

GL Account No.: 702000
WBS Element: W10.000.7067.00.
MCA IC - RMR Project

SHIPPING FACILITY NAME & ADDRESS:

Company: Conoco Phillips Co
Address: 600 N. Dairy Ashford Rd, Houston, Tx 77079
Project Lead: Neal Gates
N. Gates@conocophillips.com

LOCATION OF MATERIAL:

Location: MCA IC
Company: Conoco Phillips Co.

S 20 T 17S R 32E

Lea County, New Mexico

TRANSPORTER NAME & ADDRESS:

McNabb Partners
4008 N. Grimes #270
Hobbs, NM 88240

DESCRIPTION OF WASTE:

Impacted Soil **Quantity:** 18 yards

FACILITY CONTACT:

Date: 8-22-18 Contact Signature: (Agent for ConocoPhillips) J. Tyler

NAME OF TRANSPORTER: (Driver)

Date: 8-22-18 Driver Signature:

DISPOSAL SITE:

Name of Disposal: R360
Address:
Date: Representative Signature:

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-923220
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	JOE TYLER	Date:	8/22/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	NA	Well Ser. #:	999908
Manif. Date:	8/22/2018	Well Name:	MCA
Hauler:	MCNABB PARTNERS	Well #:	1C
Driver	CLEO	Field:	
Truck #	M32	Field #:	
Card #		Rig:	NON-DRILLING
Job Ref #		County	LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	12.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis.	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast

_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items).

_ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)

Driver/ Agent Signature **R360 Representative Signature**

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____ Date: _____

TRANSPORTER'S MANIFEST

MANIFEST # 8

SHIPPING FACILITY NAME & ADDRESS:

MCA 1C - RMR Project
Account # 702000
WBS Element: WA0.000.7067.00.1

Company: Conoco Phillips
Address: 600 N. Dairy Ashford Rd Houston, Tx 77079
Project Lead: Neal Goates

LOCATION OF MATERIAL:

Location: MCA 1C
Company: Conoco Phillips

S 20 T 17S R 32E

Lea County, New Mexico

TRANSPORTER NAME & ADDRESS:

McNabb Partners
4008 N. Grimes #270
Hobbs, NM 88240

DESCRIPTION OF WASTE:

Impacted Soil **Quantity:** 18 yds

FACILITY CONTACT:

Date: 8-22-18

Contact Signature:
(Agent for ConocoPhillips)

NAME OF TRANSPORTER: (Driver)

Date: 8-22-18

Driver Signature:

DISPOSAL SITE:

Name of Disposal: R360
Address:
Date: 8-22-18

Representative
Signature:

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-923327
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	NEAL GOATES	Date:	8/22/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	8	Well Ser. #:	999908
Manif. Date:	8/22/2018	Well Name:	MCA
Hauler:	MCNABB PARTNERS	Well #:	1C
Driver	CLEO	Field:	
Truck #	M32	Field #:	
Card #		Rig:	NON-DRILLING
Job Ref #		County	LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wastes.

__ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

__ MSDS Information __ RCRA Hazardous Waste Analysis __ Process Knowledge __ Other (Provide description above)

Driver/ Agent Signature **R360 Representative Signature**

_____ _____

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____ Date: _____

TRANSPORTER'S MANIFEST

MANIFEST # 9

SHIPPING FACILITY NAME & ADDRESS:

MCA 1C - RMR Project
Account # 702000
WBS Element : WA0.000.7067.00.RM

Company: Conoco Phillips
Address: 600 N. Dairy Ashford Rd Houston, Tx 77079
Project Lead: Neal Goates

LOCATION OF MATERIAL:

Location: MCA 1C
Company: Conoco Phillips

S 20 T 17S R 32E

Lea County, New Mexico

TRANSPORTER NAME & ADDRESS:

McNabb Partners
4008 N. Grimes #270
Hobbs, NM 88240

DESCRIPTION OF WASTE:

Impacted Soil **Quantity:** 20 yds

FACILITY CONTACT:

Date: 8-22-18 Contact Signature: (Agent for ConocoPhillips)

NAME OF TRANSPORTER: (Driver)

Date: 8-22-18 Driver Signature:

DISPOSAL SITE:

Name of Disposal: R360
Address:
Date: 8-22-18 Representative Signature:

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-923354
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	NEAL GOATES	Date:	8/22/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	9	Well Ser. #:	999908
Manif. Date:	8/22/2018	Well Name:	MCA
Hauler:	MCNABB PARTNERS	Well #:	1C
Driver	JR	Field:	
Truck #	M82	Field #:	
Card #		Rig:	NON-DRILLING
Job Ref #		County	LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis.	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast

__ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

__ MSDS Information __ RCRA Hazardous Waste Analysis __ Process Knowledge __ Other (Provide description above)

Driver/ Agent Signature **R360 Representative Signature**

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____ Date: _____

TRANSPORTER'S MANIFEST

MANIFEST # 10

MCA IC - RMR Project
Account # 702000
WBS Element :
W10.000.7067.00.RM

SHIPPING FACILITY NAME & ADDRESS:

Company: Conoco Phillips
Address: 600 Darry Ashford Rd Houston, Tx 77079
Project Lead: Neal Goates

LOCATION OF MATERIAL:

Location:
Company:

S 20 T 17S R 32E

Lea County, New Mexico

TRANSPORTER NAME & ADDRESS:

McNabb Partners
4008 N. Grimes #270
Hobbs, NM 88240

DESCRIPTION OF WASTE:

Impacted Soil **Quantity:** 12 yds

FACILITY CONTACT:

Date: 8-22-18 Contact Signature: (Agent for ConocoPhillips) J. Tyler

NAME OF TRANSPORTER: (Driver)

Date: Driver Signature: Gomez Rdz

DISPOSAL SITE:

Name of Disposal: R360
Address:
Date: 8-22-18 Representative Signature:

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-923359
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	NEAL GOATES	Date:	8/22/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	10	Well Ser. #:	999908
Manif. Date:	8/22/2018	Well Name:	MCA
Hauler:	MCNABB PARTNERS	Well #:	1C
Driver	GUMER	Field:	
Truck #	M2	Field #:	
Card #		Rig:	NON-DRILLING
Job Ref #		County	LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	12.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis.	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)

Driver/ Agent Signature **R360 Representative Signature**

_____ _____

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____ Date: _____

TRANSPORTER'S MANIFEST

MANIFEST # 11

MCA 1C - RMR Project
Account # 702000
WBS Element:
WA0.000.7067.00.RM

SHIPPING FACILITY NAME & ADDRESS:

Company: Conoco Phillips
Address: " "
Project Lead: Neal Goodes

LOCATION OF MATERIAL:

Location: MCA 1C
Company: Conoco Phillips

S 20 T 17S R 37E

Lea County, New Mexico

TRANSPORTER NAME & ADDRESS:

McNabb Partners
4008 N. Grimes #270
Hobbs, NM 88240

DESCRIPTION OF WASTE:

Impacted Soil **Quantity:** 18 yds

FACILITY CONTACT:

Date: 8-22-18 Contact Signature: (Agent for ConocoPhillips) T. Tyler

NAME OF TRANSPORTER: (Driver)

Date: 8.22.18 Driver Signature:

DISPOSAL SITE:

Name of Disposal: R360
Address:
Date: 8-22-18 Representative Signature:

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-923364
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	NEAL GAOTES	Date:	8/22/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	11	Well Ser. #:	999908
Manif. Date:	8/22/2018	Well Name:	MCA
Hauler:	MCNABB PARTNERS	Well #:	1C
Driver	CLEO	Field:	
Truck #	M32	Field #:	
Card #		Rig:	NON-DRILLING
Job Ref #		County	LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis.	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast

_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)

Driver/ Agent Signature **R360 Representative Signature**

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____ Date: _____

TRANSPORTER'S MANIFEST

MANIFEST # 12

SHIPPING FACILITY NAME & ADDRESS:

MCA IC - RMR Project
Account # 702000
WBS Element:
WA0.000.7067.00.Rm

Company: Conoco Phillips
Address: 600 N. Dairy Ashford Rd Houston, Tx 77079
Project Lead: Neal Goates N. Goates @ conoco phillips.com

LOCATION OF MATERIAL:

Location: MCA - IC
Company: Conoco Phillips

S 20 T 17S R 32E

Lea County. New Mexico

TRANSPORTER NAME & ADDRESS:

McNabb Partners
4008 N. Grimes #270
Hobbs, NM 88240

DESCRIPTION OF WASTE:

Impacted Soil **Quantity:** 18 yds

FACILITY CONTACT:

Joe Tyler

Date: 8-23-18 Contact Signature: (Agent for ConocoPhillips)

NAME OF TRANSPORTER: (Driver)

Date: 8-23-18 Driver Signature:

DISPOSAL SITE:

Name of Disposal: R360
Address:
Date: 8/23/18

Representative Signature: T. Martinez

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-923582
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	JOE TYLER	Date:	8/23/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	12	Well Ser. #:	999908
Manif. Date:	8/23/2018	Well Name:	MCA
Hauler:	MCNABB PARTNERS	Well #:	1C
Driver	JOHN	Field:	
Truck #	M32	Field #:	
Card #		Rig:	NON-DRILLING
Job Ref #		County	LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis.	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast

_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)

Driver/ Agent Signature **R360 Representative Signature**

_____ _____

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____ Date: _____

TRANSPORTER'S MANIFEST

MANIFEST # 13

SHIPPING FACILITY NAME & ADDRESS:

Company: Conoco Phillips
Address: 600 W. Dorry Ashley Rd
Project Lead: Neal Goates

MCA IC - RMR Project
Account # 702000
WBS Element:
WA0.000.7067.000.RM

LOCATION OF MATERIAL:

Location: MCA IC
Company: Conoco

S 20 T 17S R 32E

Lea County New Mexico

TRANSPORTER NAME & ADDRESS:

McNabb Partners
4008 N. Grimes #270
Hobbs, NM 88240

DESCRIPTION OF WASTE:

Impacted Soil **Quantity:** 18 yds

FACILITY CONTACT:

Date: 8-23-18 Contact Signature: (Agent for ConocoPhillips)

NAME OF TRANSPORTER: (Driver)

Date: Driver Signature:

DISPOSAL SITE:

Name of Disposal:
Address:
Date: 8-23-18

Representative Signature

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-923664
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	JOE TYLER	Date:	8/23/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	13	Well Ser. #:	999908
Manif. Date:	8/23/2018	Well Name:	MCA
Hauler:	MCNABB PARTNERS	Well #:	1C
Driver	JOHN	Field:	
Truck #	M32	Field #:	
Card #		Rig:	NON-DRILLING
Job Ref #		County	LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis.	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt was

_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)

Driver/ Agent Signature **R360 Representative Signature**

_____ _____

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____ Date: _____

TRANSPORTER'S MANIFEST

MANIFEST # 14

SHIPPING FACILITY NAME & ADDRESS:

MCA IC - RMR Project
Acc. # 702000

Company: Conoco Phillips
Address: 600 N. Ashford Dairy Rd Houston, TX 77079
Project Lead: Neal Gooter

WA0.000.7067.00.Rm

LOCATION OF MATERIAL:

Location:
Company:

S 20 T 17S R 23E

Lea County, New Mexico

TRANSPORTER NAME & ADDRESS:

McNabb Partners
4008 N. Grimes #270
Hobbs, NM 88240

DESCRIPTION OF WASTE:

Impacted Soil **Quantity:** 18 yds

FACILITY CONTACT:

Date: 8-23-18

Contact Signature:
(Agent for ConocoPhillips)

NAME OF TRANSPORTER: (Driver)

Date:

Driver Signature:

DISPOSAL SITE:

Name of Disposal:
Address:
Date: 8/23/18

Representative
Signature:

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-923750
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	JOE TYLER	Date:	8/23/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	14	Well Ser. #:	999908
Manif. Date:	8/23/2018	Well Name:	MCA
Hauler:	MCNABB PARTNERS	Well #:	1C
Driver	JOHN	Field:	
Truck #	M32	Field #:	
Card #		Rig:	NON-DRILLING
Job Ref #		County	LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast

_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)

Driver/ Agent Signature **R360 Representative Signature**

_____ _____

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____ Date: _____

TRANSPORTER'S MANIFEST

MANIFEST # 15

MCA IC - RMR Project
Acct. # 700000
WBS Element:
WA0.000.7067.00.RM

SHIPPING FACILITY NAME & ADDRESS:

Company: Conoco Phillips
Address: 600 N. Dairy Ashford Rd, Houston, Tx 77079
Project Lead: Neal Goates

LOCATION OF MATERIAL:

Location:
Company:

S 20 T 17S R 32E

Lea County, New Mexico

TRANSPORTER NAME & ADDRESS:

McNabb Partners
4008 N. Grimes #270
Hobbs, NM 88240

DESCRIPTION OF WASTE:

Impacted Soil **Quantity:** 18 yds

FACILITY CONTACT:

Date: 3-23-18 Contact Signature: (Agent for ConocoPhillips)

NAME OF TRANSPORTER: (Driver)

Date: 3.23.18 Driver Signature:

DISPOSAL SITE:

Name of Disposal: R360
Address:
Date: Representative Signature:

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-923781
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	NEAL GOATES	Date:	8/23/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	15	Well Ser. #:	999908
Manif. Date:	8/23/2018	Well Name:	MCA
Hauler:	MCNABB PARTNERS	Well #:	1C
Driver	JOHN	Field:	
Truck #	M32	Field #:	
Card #		Rig:	NON-DRILLING
Job Ref #		County	LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis.	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast

_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)

Driver/ Agent Signature **R360 Representative Signature**

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____ Date: _____

TRANSPORTER'S MANIFEST

MANIFEST # 16

SHIPPING FACILITY NAME & ADDRESS:

MCA IC - RMR Project
Acct. # 702000
WBS Element:
WA0.000.7067.00.RM

Company: Conoco Phillips
Address: 600 N. Dairy Ashford Rd. Houston, Tx 77079
Project Lead: Neal Goates

LOCATION OF MATERIAL:

Location:
Company:

S 20 T 17S R 32E

Lea County, New Mexico

TRANSPORTER NAME & ADDRESS:

McNabb Partners
4008 N. Grimes #270
Hobbs, NM 88240

DESCRIPTION OF WASTE:

Impacted Soil **Quantity:** 20 yds

FACILITY CONTACT:

Date: 8-24-18 Contact Signature: (Agent for ConocoPhillips)

NAME OF TRANSPORTER: (Driver)

Date: 8-24-18 Driver Signature:

DISPOSAL SITE:

Name of Disposal: R360
Address:
Date: 8-24-18 Representative Signature: T. Martinez

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS
Customer #:	CRI2190
Ordered by:	NEAL GOATES
AFE #:	
PO #:	
Manifest #:	NA
Manif. Date:	8/24/2018
Hauler:	MCNABB PARTNERS
Driver	JOSH
Truck #	M79
Card #	
Job Ref #	

Ticket #:	700-924019
Bid #:	O6UJ9A0009Z1
Date:	8/24/2018
Generator:	CONOCOPHILLIPS
Generator #:	
Well Ser. #:	999908
Well Name:	MCA
Well #:	1C
Field:	
Field #:	
Rig:	NON-DRILLING
County	LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

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

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast

_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)

Driver/ Agent Signature **R360 Representative Signature**

_____ _____

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____ Date: _____

TRANSPORTER'S MANIFEST

MANIFEST # 17

SHIPPING FACILITY NAME & ADDRESS:

MCA IC - RMRP Project
Acct. # 702000
WBS Element:
WA0.000.7067.00.RM

Company: Conoco Phillips Co.
Address: 600 N. Dairy Ashford Rd, Houston, Tx 77079
Project Lead: Neal Goates (N.Goates@conocophillips.com)

LOCATION OF MATERIAL:

Location:
Company:

S 20 T 17S R 32E

Lea County, New Mexico

TRANSPORTER NAME & ADDRESS:

McNabb Partners
4008 N. Grimes #270
Hobbs, NM 88240

DESCRIPTION OF WASTE:

Impacted Soil **Quantity:** 20 yds

FACILITY CONTACT:

Date: 8-24-18 Contact Signature: (Agent for ConocoPhillips)

NAME OF TRANSPORTER: (Driver)

Date: 8-24-18 Driver Signature:

DISPOSAL SITE:

Name of Disposal: R360
Address:
Date: 8-24-18 Representative Signature:

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-924065
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	NEAL GOATES	Date:	8/24/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	NA	Well Ser. #:	999908
Manif. Date:	8/24/2018	Well Name:	MCA
Hauler:	MCNABB PARTNERS	Well #:	1C
Driver	JOSH	Field:	
Truck #	M79	Field #:	
Card #		Rig:	NON-DRILLING
Job Ref #		County	LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

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

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_ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)

Driver/ Agent Signature **R360 Representative Signature**

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____ Date: _____

TRANSPORTER'S MANIFEST

MANIFEST # 18

SHIPPING FACILITY NAME & ADDRESS:

MCA IC - RMR Project
Acct. # 702000

WA0.000.7067.00.RM

Company: Conoco Phillips
Address: 600 N. Dairy Ashford Houston, Tx
Project Lead: Neal Goates

LOCATION OF MATERIAL:

Location:
Company:

S 20 T 17S R 32E

Lea County, New Mexico

TRANSPORTER NAME & ADDRESS:

McNabb Partners
4008 N. Grimes #270
Hobbs, NM 88240

DESCRIPTION OF WASTE:

Impacted Soil **Quantity:** 20 yds

FACILITY CONTACT:

Date: 8-24-18

Contact Signature:
(Agent for ConocoPhillips)

NAME OF TRANSPORTER: (Driver)

Date: 8-24-18

Driver Signature:

DISPOSAL SITE:

Name of Disposal:
Address:
Date: 8/24/18

Representative
Signature:

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-924091
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	NEAL GOATES	Date:	8/24/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	18	Well Ser. #:	999908
Manif. Date:	8/24/2018	Well Name:	MCA
Hauler:	MCNABB PARTNERS	Well #:	1C
Driver	JOSH	Field:	
Truck #	M79	Field #:	
Card #		Rig:	NON-DRILLING
Job Ref #		County	LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis.	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

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

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_ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)

Driver/ Agent Signature **R360 Representative Signature**

_____ _____

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____ Date: _____

TETRA TECH

CLIENT _____ DATE _____

JOB TITLE _____ JOB NUMBER _____

SUBJECT _____ BY _____ SHEET _____ of _____

Company: Conoco Phillips
600 N. Dairy Ashford Rd Houston, Tx 77079

Neal Coates

WBS Element: WA0.000.7067.00.RM
MCA-IC RMR Project

Sec. 20 T. 17s R. 32e

Transporter: McNabb Partners

Impacted Soil Quantity: 18 yds

8-22-18 Agent for Conoco Phillips

Joe Tyler

8-22-18 Transporter Signature

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-923299
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	NEAL GOATES	Date:	8/22/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	7	Well Ser. #:	999908
Manif. Date:	8/22/2018	Well Name:	MCA
Hauler:	MCNABB PARTNERS	Well #:	1C
Driver	CLEO	Field:	
Truck #	M32	Field #:	
Card #		Rig:	NON-DRILLING
Job Ref #		County	LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis.	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

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Driver/ Agent Signature **R360 Representative Signature**

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