SITE INFORMATION

Report Type: Closure Report 1RP-4609

General Site Information:						
Site:	**MCA Battery 1**					
Company:	**ConocoPhillips Company**					
Section, Township and Range	**Unit A**	**Sec. 30**	**T 17S**	**R 32E**		
Lease Number:	**API No.**					
County:	**Lea County**					
GPS:	**32.812300º N**			**103.799214º W**		
Surface Owner:	Federal					
Mineral Owner:						
Directions:	From Maljamar, go west on US-82 for approximately 2 miles. Turn left onto Supee Road (HWY 124) for 1.5 miles. Turn right and travel 0.7 miles to the site.					

Release Data:	
Date Released:	2/3/2017
Type Release:	Produced water and Oil
Source of Contamination:	Flow line
Fluid Released:	8.4 bbls water / 0.5 bbl oil
Fluids Recovered:	4 bbls

Official Communication:			
Name:	Jenni Fortunado		Greg Pope, P.G.
Company:	ConocoPhillips		Tetra Tech
Address:	935 N. Eldridge Pkwy.		901 W. Wall Street
			Suite 100
City:	Houston, Texas		Midland, Texas
Phone number:	(281) 293-1000		(432) 687-8134
Fax:			
Email:	jenni.fortunado@conocophillips.com		Greg.Pope@tetratech.com

Ranking Criteria		
Depth to Groundwater:	***Ranking Score***	***Site Data***
<50 ft	20	
50-99 ft	***10***	*Approximately 80 feet*
>100 ft.	0	
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:	***10***	

Acceptable Soil RRAL (mg/kg)		
Benzene	***Total BTEX***	***TPH***
10	50	1,000

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 Company, MCA Battery 1, Unit A, Section 30, Township 17 South, Range 32 East, Lea County, New Mexico.

Ms. Hernandez:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (ConocoPhillips) to assess a release that occurred at the MCA Battery 1, Unit A, Section 30, Township 17 South, Range 32 East, Lea County, New Mexico (site). The spill site coordinates are N 32.8123909° W 103.7992149°. The site location is shown on Figures 1 and 2.

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

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on February 3, 2017, and released approximately 8.4 barrels of produced water and 0.5 barrels of crude oil due to a flow line leak. Approximately four (4) barrels of fluid were recovered. As part of the emergency response action, ConocoPhillips isolated the well to repair the flowline. The release occurred on the battery caliche pad and measured approximately 120' x 40'. The initial C-141 Form is included in Appendix A.

Groundwater

No water wells were listed within Section 30 on the New Mexico Office of the State Engineer's (NMOSE) database or on the Chevron Texaco Groundwater Trend map. The nearest well reported in the database was located in 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. Due to inefficient groundwater data, the average depth to groundwater in this area is estimated to be less than 100 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 1,000 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 three (3) soil borings (B-1, B-2, and B-3) were installed in the spill area to assess and define the extent of impacted soil and presented in Figure 3. Soil samples were collected and field screened for organic vapors with a PID and for chlorides. Selected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8260B and chloride by EPA method 300.0.

The BTEX concentrations were all below the laboratory reporting limits. TPH concentrations exceeded the RRALs of 1,000 mg/kg for the three (3) borings in the 0-1' depth interval and 2-3' depth interval. The TPH concentrations in the 4-5' depth interval did not exceed the RRALs and continued to decrease in concentration with depth. Chloride concentrations exceeding the recommended 600 mg/kg limit were reported in following intervals: B-1 (0-1') 2,500 mg/kg, B-1 (2-3') 1,460 mg/kg, B-2 (0-1)' 756 mg/kg, B-3 (0-1') 1,540 mg/kg, and B-3 (2-3') 2,090 mg/kg. However, chloride concentrations were not reported in the 4-5' depth interval or below the recommended limit.

Closure Work Plan

On February 23, 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 March 26, 2018 with additional conditions of collecting bottom and sidewall confirmation samples for laboratory analysis. Based on the assessment results above, ConocoPhillips proposed to excavate the spill area to depth of 3 feet below surface to remove chlorides and TPH in the subsurface soils. All of the excavated material will be transported offsite for proper disposal. The area would be backfilled according to the specifications in the approved work plan.

TETRA TECH

Soil Excavation and Analytical Results

On June 18 through June 26, 2018, Tetra Tech personnel were onsite to supervise the excavation and remediation activities. The excavated areas and depths are shown on Figure 4 and highlighted (green) in Table 1. The excavation areas were expanded based on the laboratory data to properly remove the impacted soils. A total of four (4) bottom hole samples (AH-1 through AH-4) and ten (10) sidewall samples were collected (WSW-1, NSW-1, ESW-1, WSW-2, ESW-2, WSW-3, ESW-3, WSW-4, ESW-4, and SSW-4). The samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8260 and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C.

Referring to Table 1, all side wall samples collected except for (ESW-3), did not exhibit any TPH, benzene, or total BTEX concentrations above the RRALs. The section containing the side wall sample (ESW-3) showed an exceedance of TPH with a reported concentration of 2,339 mg/kg. To ensure that all contaminates were removed the section containing ESW-3 was extended to the east 5.0 feet and a confirmation sample was collected. The sample (ESW-3 (5')) showed TPH concentrations below the RRAL. The section containing the bottom hole sample (AH-3) showed concentrations of BTEX and TPH below the RRALs. However, the chloride concentration exceeded the threshold concentration of 600 mg/kg. The area containing AH-3 was excavated to a depth of 4.0 feet, and a 40 mil-liner was installed to prevent further vertical migration.

Once completed, the excavated area was backfilled with clean material to surface grade. Approximately 440 yards of material were 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 of 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.

Respectfully submitted,
TETRA TECH

Kayla Taylor, P.G.
Project Manager

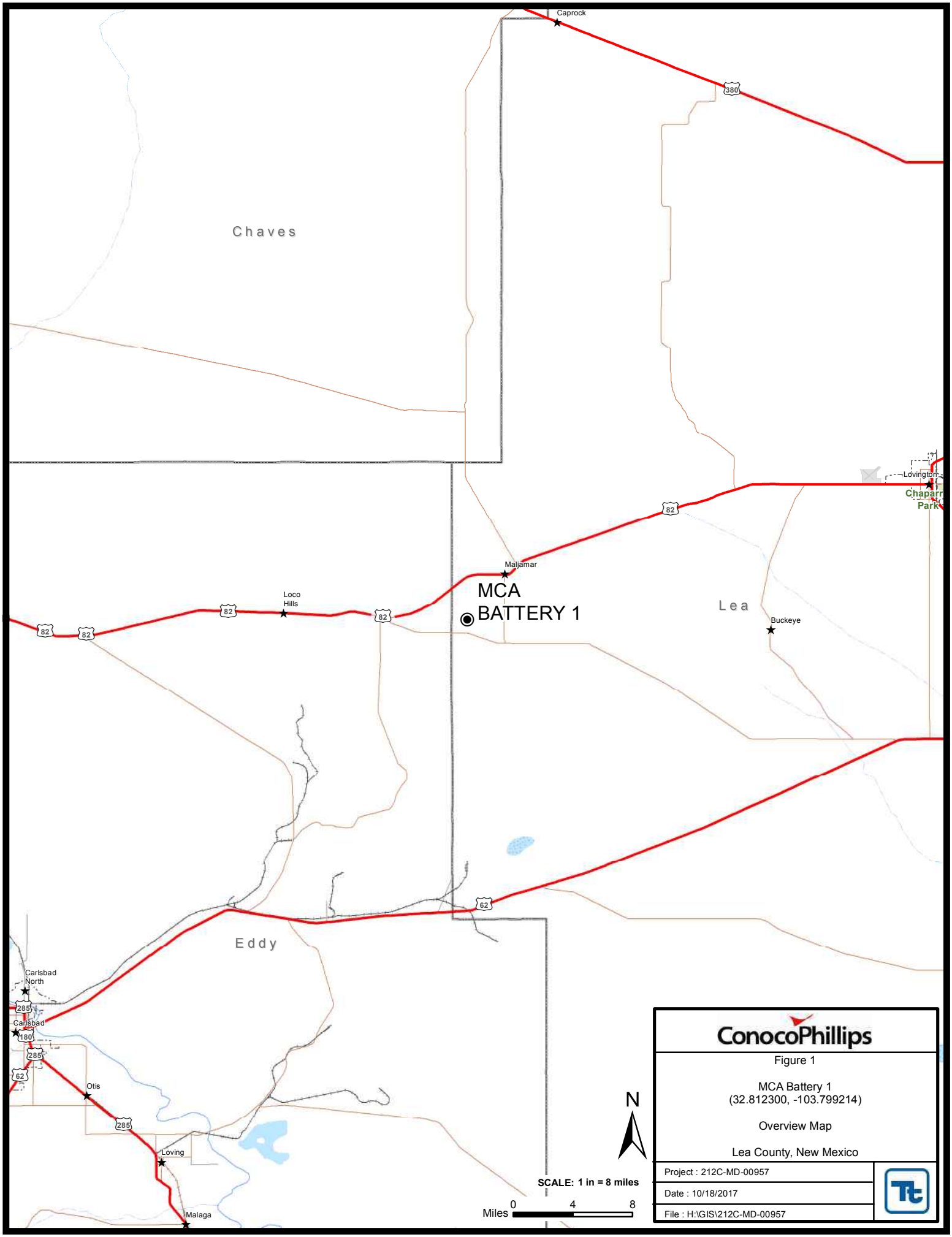
Greg W. Pope, P.G.
Program Manager

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 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



ConocoPhillips

Figure 1

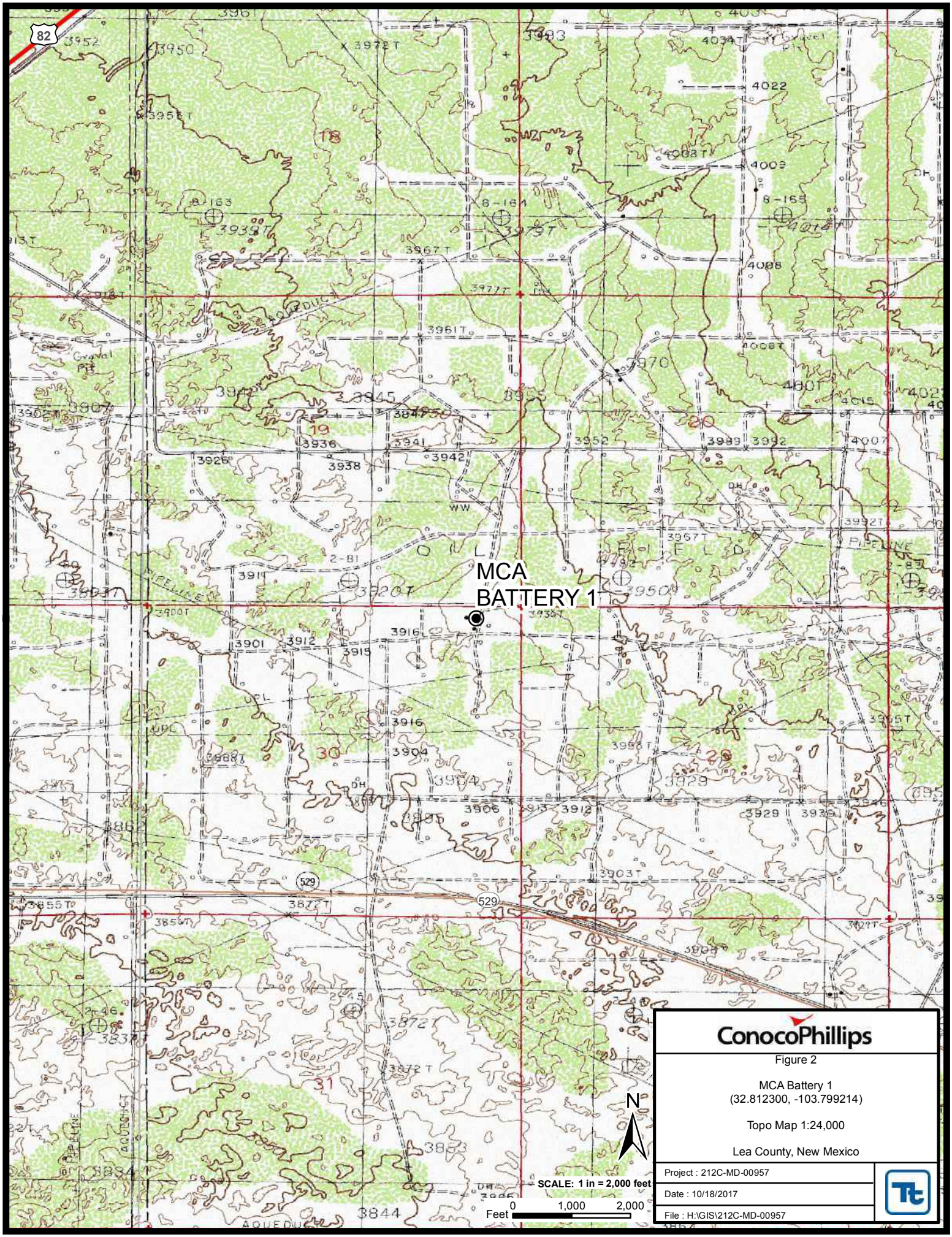
MCA Battery 1
(32.812300, -103.799214)

Overview Map

Lea County, New Mexico

Project : 212C-MD-00957	
Date : 10/18/2017	
File : H:\GIS\212C-MD-00957	

Mapped By: Isabel Marmolejo



ConocoPhillips

Figure 2

MCA Battery 1
(32.812300, -103.799214)

Topo Map 1:24,000

Lea County, New Mexico

Project : 212C-MD-00957

Date : 10/18/2017

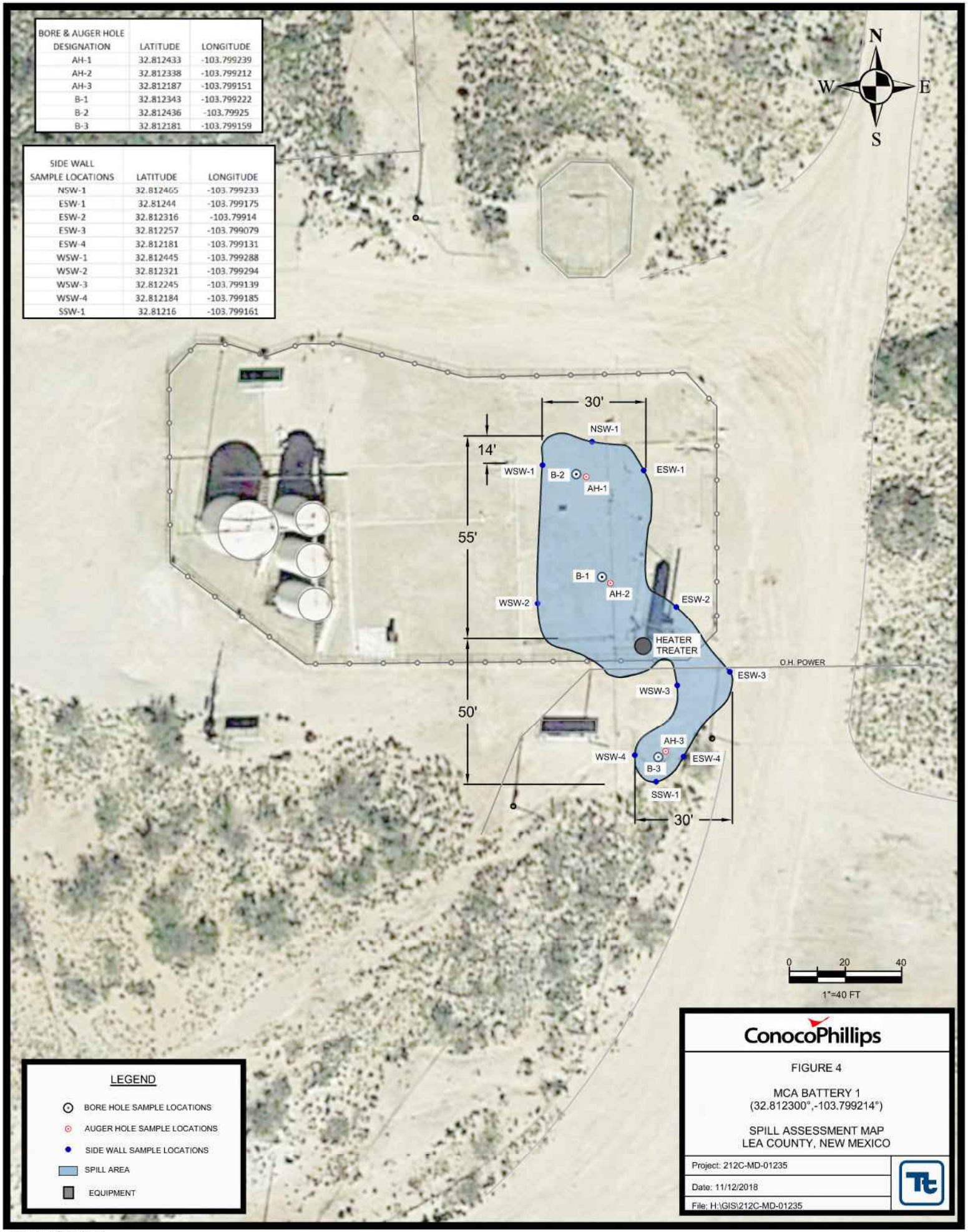
File : H:\GIS\212C-MD-00957

Mapped By: Isabel Marmolejo

Mapped By: Isabel Marmolejo

BORE & AUGER HOLE DESIGNATION	LATITUDE	LONGITUDE
AH-1	32.812433	-103.799239
AH-2	32.812338	-103.799212
AH-3	32.812187	-103.799151
B-1	32.812343	-103.799222
B-2	32.812436	-103.79925
B-3	32.812181	-103.799159

SIDE WALL SAMPLE LOCATIONS	LATITUDE	LONGITUDE
NSW-1	32.812465	-103.799233
ESW-1	32.81244	-103.799175
ESW-2	32.812316	-103.79914
ESW-3	32.812257	-103.799079
ESW-4	32.812181	-103.799131
WSW-1	32.812445	-103.799288
WSW-2	32.812321	-103.799294
WSW-3	32.812245	-103.799139
WSW-4	32.812184	-103.799185
SSW-1	32.81216	-103.799161



LEGEND

- BORE HOLE SAMPLE LOCATIONS
- AUGER HOLE SAMPLE LOCATIONS
- SIDE WALL SAMPLE LOCATIONS
- SPILL AREA
- EQUIPMENT

ConocoPhillips

FIGURE 4

MCA BATTERY 1
(32.812300°,-103.799214°)

SPILL ASSESSMENT MAP
LEA COUNTY, NEW MEXICO

Project: 212C-MD-01235

Date: 11/12/2018

File: H:\GIS\212C-MD-01235

Drawn By: MISTI MORGAN

Tables

Table 1
ConocoPhillips
Summary of Soil Excavation Sample Locations
MCA Battery 1
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		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)	Chloride (PPM)	Chloride (mg/kg)
AH-1	7/30/2018	3'-4'	X		-	0.0346 J	4.43 J	6.09	10.55	<0.00122	<0.00612	<0.00306	<0.00795	<0.00795	426	444
NSW-1	7/30/2018	-	X		-	0.031 J	<4.23	0.953 J	0.984	<0.00106	<0.00529	<0.00265	<0.00688	<0.00688	75.5	124
WSW-1	7/30/2018	-	X		-	0.036 J	<4.33	1.04 J	1.08	<0.00108	<0.00542	<0.00271	<0.00704	<0.00704	102	88
ESW-1	7/30/2018	-	X		-	0.0360 J	<4.97	<4.97	0.0360	<0.00122	<0.00612	<0.00310	<0.00807	<0.00807	114	81.5
AH-2	6/21/2018	3'-4'	X		3.1	< 0.107 BJ	5.46	7.67	13.13	< 0.000428	< 0.00134	< 0.000567	< 0.00512	< 0.00512	320	173
WSW-2	6/25/2018	-	X		-	0.0347 J	< 1.76	0.68 J	0.89	< 0.000437	< 0.00136	< 0.000579	< 0.00522	< 0.00522	160	103
ESW-2	6/25/2018	-	X		-	0.0418 J	2.31 J	2.11 J	4.46	< 0.000425	< 0.00133	< 0.000564	< 0.00508	< 0.00508	120	124
AH-4	7/30/2018	(2'-3')	X		-	0.0298 J	183	294	477.02	<0.00106	<0.00531	<0.00266	<0.00690	<0.00690	44	50.9
WSW-3	6/26/2018	-	X		-	0.0378 J	7.36	8.13	15.52	< 0.000459	< 0.00143	< 0.000608	< 0.00548	< 0.00548	560	234
ESW-3	6/26/2018	-		X	-	0.0271 J	1,350	989	**2,339**	< 0.000405	< 0.00126	< 0.000536	< 0.00484	< 0.00484	600	471
ESW-3 (5')	8/14/2018	-	X		-	<0.0252	1.91 J	<0.319	1.91	-	-	-	-	-	-	-
AH-3	6/21/2018	3'-4'		X	4.0	0.0297 BJ	< 1.76	0.367 BJ	0.39	< 0.000436	< 0.00136	< 0.000578	< 0.00521	< 0.00521	1440	**1,260**
AH-3	6/26/2018	4'-5'	X		-	0.0315 J	5.46	0.588 J	6.07	< 0.000455	< 0.00142	< 0.000603	< 0.00544	< 0.00544	2860	**2,500**
WSW-4	6/26/2018	-	X		-	0.0372 J	17.5	20.9	38.43	< 0.000482	< 0.0015	< 0.000638	< 0.00575	< 0.00575	360	245
ESW-4	6/26/2018	-	X		-	0.0395 J	86.3	91.9	178.23	< 0.000406	< 0.00127	< 0.000537	< 0.00485	< 0.00485	200	159
SSW-1	6/26/2018	-	X		-	0.0356 J	3.04 J	7.6	10.67	< 0.000408	< 0.00128	< 0.000541	< 0.00488	< 0.00488	240	125

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 same analyte is found in the associated blank.
GRO	Gasoline Range Organics	J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low

Photos

ConocoPhillips
MCA Battery 1
Lea County, New Mexico

View Northwest – Area of AH-1 and AH-2

View Northwest– Area of AH-2

ConocoPhillips
MCA Battery 1
Lea County, New Mexico

View of South – Area of AH-3

View West – Area of AH-4

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 Battery 1**	Facility Type: **Battery**

Surface Owner: Federal	Mineral Owner: N/A	API No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	30	17S	32E					**Lea**

GPS for battery: 32.81245372, -103.7996117

Latitude 32.8110619 **Longitude** -103.8080673

GPS for nearest API 30-025-00783

NATURE OF RELEASE

Type of Release: **Oil/Produced Water**	Volume of Release: .5 BBL Oil 8.4BPW	Volume Recovered: 4 BBL
Source of Release: **Flow line**	Date and Hour of Occurrence **2-3-2017 1230 PM**	Date and Hour of Discovery **2-3-2017 1300**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Shelly Tucker	
By Whom? **Cullen Rosine**	Date and Hour: **2-6-2017 0815 via phone/email**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

N/A

RECEIVED
By Olivia Yu at 3:02 pm, Feb 15, 2017

Describe Cause of Problem and Remedial Action Taken. On February 3, 2017 at 1300hrs a leak occurred on MCA Battery 1 header. The release resulted in a loss of .5 BO – 8.4 BPW with 4 BBL recovered. Spill site will be remediated per BLM and NMOCD guidelines.

Describe Area Affected and Cleanup Action Taken. *
Area 1 – 120' X 40' X 2" deep.

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

Signature: *Cullen Rosine*

Printed Name: Cullen Rosine

Title: HSE Specialist

E-mail Address: ***Cullen.J.Rosine@conocophillips.com***

Date: 02/03/2017 Phone:575-391-3133

OIL CONSERVATION DIVISION

Approved by Environmental Specialist:

Approval Date: 2/15/2017 Expiration Date:

Conditions of Approval:

see attached directive

Attached ☑

* Attach Additional Sheets If Necessary

1RP-4609

nOY1704741302

fOY1704739261

pOY1704741634

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-4609
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: 3/11/2019

email: jenni.fortunato@conocophillips.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

Water Well Data
Average Depth to Groundwater (ft)
Conoco Phillips - MCA Battery 1
Lea County, New Mexico

16 South 31 East

6	5	4	3	2 290	1
7	8	9	10	11	12 288
18	17	16	15	14 113 314	13 299
19	20	21	22	23	24
30	29	28	27	26	25
31 290	32	33	34	35	36

16 South 32 East

6	5	4	3 65	2 265	1 265
7	8	9	10	11	12 215
18	17	16 221	15	14	13 215
19 220	20	21 210	22	23 210	24
30	29	28	27	26 243	25
31	32	33	34	35	36 260

16 South 33 East

6	5 180	4 150	3 130	2 148	1 142
7	8 200	9	10 182	11	12 142
18	17 182	16 180	15 175	14 143	13 110
19	20	21	22	23 120	24
30 191	29	28 190	27 130	26 143	25 120
31 190	32 168	33	34 160	35	36

17 South 31 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34 271	35	36

17 South 32 East

6	5	4 82	3 175	2 60	1 225
7	8	9	10 132	11 70 88	12 120
18	17	16	15	14	13
19	20	21	22	23	24
30 180 dry	29	28 81	27	26	25
31	32	33	34	35	36

17 South 33 East

6 90	5	4	3 155	2 158	1 150
7 167	8 173	9 161	10	11	12
18 188	17 180	16	15	14	13 165
19	20 190	21	22	23 115	24
30 69	29 60	28	27	26	25
31	32	33 120	34	35 155	36

18 South 31 East

6	5	4	3	2	1
7	8	9	10	11	12 400
18	17	16	15 98	14 317	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35 261	36

18 South 32 East

6	5	4 65	3	2	1
7 460 82	8	9	10	11	12
18	17	16 84	15	14	13
19	20 164	21	22 429	23	24
30	29	28	27	26	25
31	32	33	34 117	35	36

18 South 33 East

6	5	4	3 60	2	1
7	8 100	9	10 62	11 46	12 143 140
18	17 85	16	15	14 36	13 60
19 >140	20	21	22	23	24 195
30 35	29	28	27	26	25
31	32	33 177	34	35	36

88 New Mexico State Engineers Well Reports

105 USGS Well Reports

90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)

Geology and Groundwater Resources of Eddy County, NM (Report 3)

34 NMOCD - Groundwater Data

123 Tetra Tech installed temporary wells and field water level

143 NMOCD Groundwater map well location

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

ANALYTICAL REPORT

July 07, 2018

ConocoPhillips - Tetra Tech

Sample Delivery Group:	L1005195
Samples Received:	06/28/2018
Project Number:	212E.MD-01235
Description:	MCA Batt 1

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

Entire Report Reviewed By:

Chris McCord
Technical Service Representative

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 ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

- AH-2 (3-4) L1005195-01 5
- AH-3 (3-4) L1005195-02 6

Qc: Quality Control Summary 7

- Total Solids by Method 2540 G-2011 7
- Wet Chemistry by Method 300.0 8
- Volatile Organic Compounds (GC) by Method 8015D/GRO 9
- Volatile Organic Compounds (GC/MS) by Method 8260B 10
- Semi-Volatile Organic Compounds (GC) by Method 8015 11

Gl: Glossary of Terms 13

Al: Accreditations & Locations 14

Sc: Sample Chain of Custody 15

AH-2 (3-4) L1005195-01 Solid

Collected by	Collected date/time	Received date/time
Clint Merritt	06/21/18 13:00	06/28/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1133344	1	07/03/18 13:27	07/03/18 13:41	JD
Wet Chemistry by Method 300.0	WG1131009	1	07/01/18 12:03	07/02/18 19:58	MAJ
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1133353	1	06/28/18 15:43	07/03/18 17:13	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1131548	1	06/28/18 15:43	06/28/18 23:55	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1132335	1	06/30/18 13:50	07/02/18 11:21	AAT

AH-3 (3-4) L1005195-02 Solid

Collected by	Collected date/time	Received date/time
Clint Merritt	06/21/18 13:05	06/28/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1133344	1	07/03/18 13:27	07/03/18 13:41	JD
Wet Chemistry by Method 300.0	WG1131009	5	07/01/18 12:03	07/02/18 20:08	MAJ
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1133353	1	06/28/18 15:43	07/03/18 17:35	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1131548	1	06/28/18 15:43	06/29/18 00:15	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1132646	1	07/03/18 10:59	07/03/18 16:10	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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.4		1	07/03/2018 13:41	WG1133344

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	173		0.851	10.7	1	07/02/2018 19:58	WG1131009

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0272	B J	0.0232	0.107	1	07/03/2018 17:13	WG1133353
(S) a,a,a-Trifluorotoluene(FID)	*95.3*			*77.0-120*		*07/03/2018 17:13*	WG1133353

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000428	0.00107	1	06/28/2018 23:55	WG1131548
Toluene	U		0.00134	0.00535	1	06/28/2018 23:55	WG1131548
Ethylbenzene	U		0.000567	0.00268	1	06/28/2018 23:55	WG1131548
Total Xylenes	U		0.00512	0.00696	1	06/28/2018 23:55	WG1131548
(S) Toluene-d8	*113*			*80.0-120*		*06/28/2018 23:55*	WG1131548
(S) Dibromofluoromethane	*89.1*			*74.0-131*		*06/28/2018 23:55*	WG1131548
(S) a,a,a-Trifluorotoluene	*111*			*80.0-120*		*06/28/2018 23:55*	WG1131548
(S) 4-Bromofluorobenzene	*94.8*			*64.0-132*		*06/28/2018 23:55*	WG1131548

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	5.46		1.72	4.28	1	07/02/2018 11:21	WG1132335
C28-C40 Oil Range	7.67		0.293	4.28	1	07/02/2018 11:21	WG1132335
(S) o-Terphenyl	*101*			*18.0-148*		*07/02/2018 11:21*	WG1132335

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.7		1	07/03/2018 13:41	WG1133344

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1260		4.34	54.5	5	07/02/2018 20:08	WG1131009

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0297	B J	0.0237	0.109	1	07/03/2018 17:35	WG1133353
(S) a,a,a-Trifluorotoluene(FID)	*95.3*			*77.0-120*		*07/03/2018 17:35*	WG1133353

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000436	0.00109	1	06/29/2018 00:15	WG1131548
Toluene	U		0.00136	0.00545	1	06/29/2018 00:15	WG1131548
Ethylbenzene	U		0.000578	0.00273	1	06/29/2018 00:15	WG1131548
Total Xylenes	U		0.00521	0.00709	1	06/29/2018 00:15	WG1131548
(S) Toluene-d8	*111*			*80.0-120*		*06/29/2018 00:15*	WG1131548
(S) Dibromofluoromethane	*91.6*			*74.0-131*		*06/29/2018 00:15*	WG1131548
(S) a,a,a-Trifluorotoluene	*107*			*80.0-120*		*06/29/2018 00:15*	WG1131548
(S) 4-Bromofluorobenzene	*95.6*			*64.0-132*		*06/29/2018 00:15*	WG1131548

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.76	4.36	1	07/03/2018 16:10	WG1132646
C28-C40 Oil Range	0.367	B J	0.299	4.36	1	07/03/2018 16:10	WG1132646
(S) o-Terphenyl	*56.0*			*18.0-148*		*07/03/2018 16:10*	WG1132646

Method Blank (MB)

(MB) R3323012-1 07/03/18 13:41

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

L1005195-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1005195-01 07/03/18 13:41 • (DUP) R3323012-3 07/03/18 13:41

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	93.4	93.5	1	0.151		5

Laboratory Control Sample (LCS)

(LCS) R3323012-2 07/03/18 13:41

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) R3322671-1 07/02/18 16:38

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

L1005081-22 Original Sample (OS) • Duplicate (DUP)

(OS) L1005081-22 07/02/18 17:45 • (DUP) R3322671-4 07/02/18 17:54

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	544	547	1	0.446		20

L1005978-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1005978-21 07/02/18 21:24 • (DUP) R3322671-7 07/02/18 21:33

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	59.1	59.5	1	0.568		20

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

(LCS) R3322671-2 07/02/18 16:48 • (LCSD) R3322671-3 07/02/18 16:57

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	196	195	98.0	97.4	90.0-110			0.673	20

L1005081-29 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1005081-29 07/02/18 19:20 • (MS) R3322671-5 07/02/18 19:29 • (MSD) R3322671-6 07/02/18 19:39

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	333	771	761	87.6	85.5	1	80.0-120			1.39	20

Method Blank (MB)

(MB) R3322834-3 07/03/18 12:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0230	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*97.6*			*77.0-120*

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

(LCS) R3322834-1 07/03/18 10:14 • (LCSD) R3322834-2 07/03/18 10:37

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	5.39	5.40	98.0	98.1	70.0-136			0.145	20
(S) a,a,a-Trifluorotoluene(FID)				*110*	*110*	*77.0-120*				

Method Blank (MB)

(MB) R3322854-3 06/28/18 23:09

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	*111*			*80.0-120*
(S) Dibromofluoromethane	*92.5*			*74.0-131*
(S) a,a,a-Trifluorotoluene	*108*			*80.0-120*
(S) 4-Bromofluorobenzene	*102*			*64.0-132*

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

(LCS) R3322854-1 06/28/18 21:17 • (LCSD) R3322854-2 06/28/18 21:37

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	0.109	0.0998	87.2	79.9	71.0-124			8.80	20
Ethylbenzene	0.125	0.113	0.119	90.0	95.3	77.0-120			5.68	20
Toluene	0.125	0.130	0.124	104	98.9	70.0-120			5.38	20
Xylenes, Total	0.375	0.327	0.354	87.2	94.4	77.0-120			7.93	20
(S) Toluene-d8				*108*	*103*	*80.0-120*				
(S) Dibromofluoromethane				*101*	*95.9*	*74.0-131*				
(S) a,a,a-Trifluorotoluene				*107*	*107*	*80.0-120*				
(S) 4-Bromofluorobenzene				*97.9*	*96.5*	*64.0-132*				

L1005195-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1005195-02 06/29/18 00:15 • (MS) R3322854-4 06/29/18 06:35 • (MSD) R3322854-5 06/29/18 06:55

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	0.136	U	0.117	0.118	86.0	86.6	1	13.0-146			0.731	27
Ethylbenzene	0.136	U	0.157	0.142	115	104	1	10.0-147			9.72	31
Toluene	0.136	U	0.175	0.168	128	124	1	10.0-144			3.73	28
Xylenes, Total	0.409	U	0.445	0.413	109	101	1	10.0-150			7.37	31
(S) Toluene-d8					*117*	*115*		*80.0-120*				
(S) Dibromofluoromethane					*89.6*	*89.0*		*74.0-131*				
(S) a,a,a-Trifluorotoluene					*114*	*108*		*80.0-120*				
(S) 4-Bromofluorobenzene					*104*	*99.6*		*64.0-132*				

Method Blank (MB)

(MB) R3322370-1 07/01/18 06:54

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	*84.5*			*18.0-148*

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

(LCS) R3322370-2 07/01/18 07:07 • (LCSD) R3322370-3 07/01/18 07:20

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 %
C10-C28 Diesel Range	50.0	32.1	30.5	64.2	61.0	50.0-150			5.16	20
(S) o-Terphenyl				*94.7*	*98.9*	*18.0-148*				

Method Blank (MB)

(MB) R3322887-1 07/03/18 13:42

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	0.409	J	0.274	4.00
(S) o-Terphenyl	*76.6*			*18.0-148*

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

(LCS) R3322887-2 07/03/18 13:57 • (LCSD) R3322887-3 07/03/18 14:10

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	26.4	28.2	52.8	56.4	50.0-150			6.60	20
(S) o-Terphenyl				*72.8*	*89.9*	*18.0-148*				

L1005202-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1005202-02 07/03/18 16:39 • (MS) R3322887-4 07/03/18 15:01 • (MSD) R3322887-5 07/03/18 15:14

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 %
C10-C28 Diesel Range	52.0	U	25.4	24.2	48.8	46.5	1	50.0-150	J6	J6	4.85	20
(S) o-Terphenyl					*62.2*	*65.4*		*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.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(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 Reporting Limit (or MDL where applicable).
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.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

ESC Lab Sciences 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 ESC Lab Sciences.

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

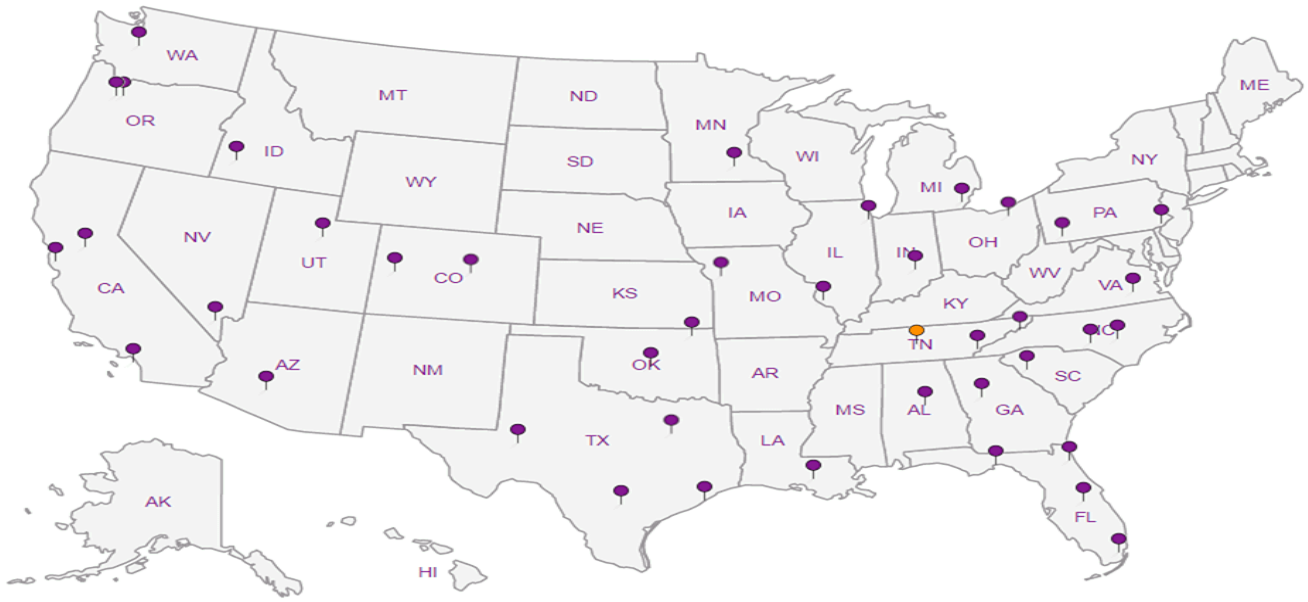
Third Party Federal Accreditations

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

ESC Lab Sciences 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. ESC Lab Sciences performs all testing at our central laboratory.



ConocoPhillips - Tetra Tech

4001 N. Big Spring St., Ste. 401
Midland, TX 79705

Billing Information

Accounts Payable
4001 N. Big Spring St., Ste. 401
Midland, TX 79705

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page __ of __

ESC LAB SCIENCES

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: Kayla Taylor

Email To: Kayla.lovelytaylor@tetratech.com

Project Description: MCA Batt 1

City/State Collected: Lea Co, NM

Phone: 432-687-8137

Fax

Client Project #: 212C-MD-01235

Lab Project #

L# L100595

T A221

Collected by (print): Chris Smith

Site/Facility ID #: —

P O #

Acctnum: COPTETRA

Template

Prelogin:

TSR: 526 - Chris McCord

PB:

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No of Cntrs	Cl- 300.0	TPH 8015	BTEX 8260	Remarks	Sample # (lab only)
AH-2(3-4)	—	SS	—	6/21	13:00	1	X	X	X		-01
AH-3(3-4)	—	SS	—	6/21	13:05	1	X	X	X		-02
						1	X	X	X		-03

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH ____ Temp ____

Flow ____ Other ____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 4430 3423 5654

Sample Receipt Checklist
COC Seal Present/Intact: NP ___ Y ___ N
COC Signed/Accurate: ___ Y ___ N
Bottles arrive intact: ___ Y ___ N
Correct bottles used: ___ Y ___ N
Sufficient volume sent: ___ Y ___ N
If Applicable
VOA Zero Headspace: ___ Y ___ N
Preservation Correct/Checked: ___ Y ___ N

Relinquished by: (Signature)	Date	Time	Received by (Signature)	Trip Blank Received: Yes / No HCL / MeOH TBR	
	6/21	17:00			
Relinquished by: (Signature)	Date: 6/27/18	me: 1632		Temp	Bottles Received: 2
Relinquished by (Signature)	Date:	me:	Received for lab by: (Signature)	Date: 6/28/18	e: 845

If preservation required by Login: Date/Time

Hold:

Condition NCF / OK

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

October 19, 2018

ConocoPhillips - Tetra Tech

Sample Delivery Group:	L1006220
Samples Received:	06/30/2018
Project Number:	212C-MD-01235
Description:	MCA Batt 1

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

Entire Report Reviewed By:

Chris McCord
Project Manager

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 5

Sr: Sample Results 6

WSW-2 L1006220-01 6

ESW-2 L1006220-02 7

WSW-3 L1006220-03 8

ESW-3 L1006220-04 9

WSW-4 L1006220-05 10

ESW-4 L1006220-06 11

SSW-1 L1006220-07 12

AH-3 (4-5) L1006220-08 13

NSW-1 L1006220-13 14

Qc: Quality Control Summary 15

Total Solids by Method 2540 G-2011 15

Wet Chemistry by Method 9056A 18

Volatile Organic Compounds (GC) by Method 8015D/GRO 19

Volatile Organic Compounds (GC/MS) by Method 8260B 21

Semi-Volatile Organic Compounds (GC) by Method 8015 23

Gl: Glossary of Terms 25

Al: Accreditations & Locations 26

Sc: Sample Chain of Custody 27

WSW-2 L1006220-01 Solid

Collected by	Collected date/time	Received date/time
Clint Merritt	06/25/18 10:50	06/30/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1134423	1	07/09/18 10:36	07/09/18 10:49	KS
Wet Chemistry by Method 9056A	WG1132549	1	07/08/18 15:01	07/08/18 19:28	DR
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1135170	1	07/01/18 11:25	07/09/18 02:12	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1133251	1	07/01/18 11:25	07/03/18 20:36	LRL
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1134126	1	07/07/18 00:08	07/07/18 17:37	MG

ESW-2 L1006220-02 Solid

Collected by	Collected date/time	Received date/time
Clint Merritt	06/25/18 10:55	06/30/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1134423	1	07/09/18 10:36	07/09/18 10:49	KS
Wet Chemistry by Method 9056A	WG1132549	1	07/08/18 15:01	07/08/18 19:37	DR
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1135170	1	07/01/18 11:25	07/09/18 02:34	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1133251	1	07/01/18 11:25	07/03/18 20:55	LRL
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1134126	1	07/07/18 00:08	07/07/18 18:18	MG

WSW-3 L1006220-03 Solid

Collected by	Collected date/time	Received date/time
Clint Merritt	06/26/18 11:10	06/30/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1135214	1	07/09/18 13:47	07/09/18 13:57	KDW
Wet Chemistry by Method 9056A	WG1132549	1	07/08/18 15:01	07/08/18 20:06	DR
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1135170	1	07/01/18 11:25	07/09/18 02:56	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1133251	1	07/01/18 11:25	07/03/18 21:14	LRL
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1134126	1	07/07/18 00:08	07/07/18 18:58	MG

ESW-3 L1006220-04 Solid

Collected by	Collected date/time	Received date/time
Clint Merritt	06/26/18 11:05	06/30/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1135214	1	07/09/18 13:47	07/09/18 13:57	KDW
Wet Chemistry by Method 9056A	WG1132549	1	07/08/18 15:01	07/08/18 20:34	DR
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1135170	1	07/01/18 11:25	07/09/18 03:18	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1133251	1	07/01/18 11:25	07/03/18 21:32	LRL
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1134126	5	07/07/18 00:08	07/08/18 09:51	MTJ

WSW-4 L1006220-05 Solid

Collected by	Collected date/time	Received date/time
Clint Merritt	06/26/18 08:40	06/30/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1135214	1	07/09/18 13:47	07/09/18 13:57	KDW
Wet Chemistry by Method 9056A	WG1132549	1	07/08/18 15:01	07/08/18 20:44	DR
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1135170	1	07/01/18 11:25	07/09/18 03:40	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1133251	1	07/01/18 11:25	07/03/18 21:52	LRL
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1134126	1	07/07/18 00:08	07/07/18 19:39	MG

ESW-4 L1006220-06 Solid

Collected by: Clint Merritt | Collected date/time: 06/26/18 08:50 | Received date/time: 06/30/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1135214	1	07/09/18 13:47	07/09/18 13:57	KDW
Wet Chemistry by Method 9056A	WG1132549	1	07/08/18 15:01	07/08/18 20:53	DR
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1135170	1	07/01/18 11:25	07/09/18 04:02	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1133251	1	07/01/18 11:25	07/03/18 22:11	LRL
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1134126	1	07/07/18 00:08	07/07/18 19:53	MG

SSW-1 L1006220-07 Solid

Collected by: Clint Merritt | Collected date/time: 06/26/18 08:45 | Received date/time: 06/30/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1135214	1	07/09/18 13:47	07/09/18 13:57	KDW
Wet Chemistry by Method 9056A	WG1132549	1	07/08/18 15:01	07/08/18 21:03	DR
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1135170	1	07/01/18 11:25	07/09/18 04:23	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1133251	1	07/01/18 11:25	07/03/18 23:56	LRL
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1134126	1	07/07/18 00:08	07/07/18 19:12	MG

AH-3 (4-5) L1006220-08 Solid

Collected by: Clint Merritt | Collected date/time: 06/26/18 09:00 | Received date/time: 06/30/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1135214	1	07/09/18 13:47	07/09/18 13:57	KDW
Wet Chemistry by Method 9056A	WG1132549	5	07/08/18 15:01	07/08/18 21:22	DR
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1135170	1	07/01/18 11:25	07/09/18 04:45	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1133251	1	07/01/18 11:25	07/04/18 00:15	LRL
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1134126	1	07/07/18 00:08	07/07/18 18:04	MG

NSW-1 L1006220-13 Solid

Collected by: Clint Merritt | Collected date/time: 06/28/18 10:15 | Received date/time: 06/30/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1134518	1	07/09/18 10:22	07/09/18 10:29	JAV
Wet Chemistry by Method 9056A	WG1132549	1	07/08/18 15:01	07/08/18 19:18	MCG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1136581	1	07/01/18 08:58	07/11/18 20:59	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1136557	1	07/01/18 08:58	07/12/18 01:04	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1134233	5	07/09/18 17:03	07/10/18 17:54	MG

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	91.6		1	07/09/2018 10:49	WG1134423

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	103		0.868	10.0	10.9	1	07/08/2018 19:28	WG1132549

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	0.0347	J	0.0237	0.100	0.109	1	07/09/2018 02:12	WG1135170
(S) a,a,a-Trifluorotoluene(FID)	*101*				*77.0-120*		*07/09/2018 02:12*	WG1135170

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		0.000437	0.00100	0.00109	1	07/03/2018 20:36	WG1133251
Toluene	U		0.00136	0.00500	0.00546	1	07/03/2018 20:36	WG1133251
Ethylbenzene	U		0.000579	0.00250	0.00273	1	07/03/2018 20:36	WG1133251
Total Xylenes	U		0.00522	0.00650	0.00710	1	07/03/2018 20:36	WG1133251
(S) Toluene-d8	*113*				*80.0-120*		*07/03/2018 20:36*	WG1133251
(S) Dibromofluoromethane	*87.7*				*74.0-131*		*07/03/2018 20:36*	WG1133251
(S) a,a,a-Trifluorotoluene	*111*				*80.0-120*		*07/03/2018 20:36*	WG1133251
(S) 4-Bromofluorobenzene	*97.3*				*64.0-132*		*07/03/2018 20:36*	WG1133251

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		1.76	4.00	4.37	1	07/07/2018 17:37	WG1134126
C28-C40 Oil Range	0.680	J	0.299	4.00	4.37	1	07/07/2018 17:37	WG1134126
(S) o-Terphenyl	*80.1*				*18.0-148*		*07/07/2018 17:37*	WG1134126

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.0		1	07/09/2018 10:49	WG1134423

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	124		0.846	10.0	10.6	1	07/08/2018 19:37	WG1132549

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	0.0418	J	0.0231	0.100	0.106	1	07/09/2018 02:34	WG1135170
(S) a,a,a-Trifluorotoluene(FID)	*102*				*77.0-120*		*07/09/2018 02:34*	WG1135170

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		0.000425	0.00100	0.00106	1	07/03/2018 20:55	WG1133251
Toluene	U		0.00133	0.00500	0.00532	1	07/03/2018 20:55	WG1133251
Ethylbenzene	U		0.000564	0.00250	0.00266	1	07/03/2018 20:55	WG1133251
Total Xylenes	U		0.00508	0.00650	0.00691	1	07/03/2018 20:55	WG1133251
(S) Toluene-d8	*117*				*80.0-120*		*07/03/2018 20:55*	WG1133251
(S) Dibromofluoromethane	*92.4*				*74.0-131*		*07/03/2018 20:55*	WG1133251
(S) a,a,a-Trifluorotoluene	*111*				*80.0-120*		*07/03/2018 20:55*	WG1133251
(S) 4-Bromofluorobenzene	*101*				*64.0-132*		*07/03/2018 20:55*	WG1133251

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	2.31	J	1.71	4.00	4.25	1	07/07/2018 18:18	WG1134126
C28-C40 Oil Range	2.11	J	0.291	4.00	4.25	1	07/07/2018 18:18	WG1134126
(S) o-Terphenyl	*89.9*				*18.0-148*		*07/07/2018 18:18*	WG1134126

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.2		1	07/09/2018 13:57	WG1135214

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	234		0.912	10.0	11.5	1	07/08/2018 20:06	WG1132549

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	0.0378	J	0.0249	0.100	0.115	1	07/09/2018 02:56	WG1135170
(S) a,a,a-Trifluorotoluene(FID)	*100*				*77.0-120*		*07/09/2018 02:56*	WG1135170

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		0.000459	0.00100	0.00115	1	07/03/2018 21:14	WG1133251
Toluene	U		0.00143	0.00500	0.00573	1	07/03/2018 21:14	WG1133251
Ethylbenzene	U		0.000608	0.00250	0.00287	1	07/03/2018 21:14	WG1133251
Total Xylenes	U		0.00548	0.00650	0.00745	1	07/03/2018 21:14	WG1133251
(S) Toluene-d8	*111*				*80.0-120*		*07/03/2018 21:14*	WG1133251
(S) Dibromofluoromethane	*102*				*74.0-131*		*07/03/2018 21:14*	WG1133251
(S) a,a,a-Trifluorotoluene	*106*				*80.0-120*		*07/03/2018 21:14*	WG1133251
(S) 4-Bromofluorobenzene	*92.4*				*64.0-132*		*07/03/2018 21:14*	WG1133251

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	7.36		1.85	4.00	4.59	1	07/07/2018 18:58	WG1134126
C28-C40 Oil Range	8.13		0.314	4.00	4.59	1	07/07/2018 18:58	WG1134126
(S) o-Terphenyl	*83.4*				*18.0-148*		*07/07/2018 18:58*	WG1134126

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.8		1	07/09/2018 13:57	WG1135214

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	471		0.805	10.0	10.1	1	07/08/2018 20:34	WG1132549

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	0.0271	J	0.0220	0.100	0.101	1	07/09/2018 03:18	WG1135170
(S) a,a,a-Trifluorotoluene(FID)	*98.1*				*77.0-120*		*07/09/2018 03:18*	WG1135170

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		0.000405	0.00100	0.00101	1	07/03/2018 21:32	WG1133251
Toluene	U		0.00126	0.00500	0.00506	1	07/03/2018 21:32	WG1133251
Ethylbenzene	U		0.000536	0.00250	0.00253	1	07/03/2018 21:32	WG1133251
Total Xylenes	U		0.00484	0.00650	0.00658	1	07/03/2018 21:32	WG1133251
(S) Toluene-d8	*115*				*80.0-120*		*07/03/2018 21:32*	WG1133251
(S) Dibromofluoromethane	*94.4*				*74.0-131*		*07/03/2018 21:32*	WG1133251
(S) a,a,a-Trifluorotoluene	*110*				*80.0-120*		*07/03/2018 21:32*	WG1133251
(S) 4-Bromofluorobenzene	*99.3*				*64.0-132*		*07/03/2018 21:32*	WG1133251

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	1350		8.15	4.00	20.2	5	07/08/2018 09:51	WG1134126
C28-C40 Oil Range	989		1.39	4.00	20.2	5	07/08/2018 09:51	WG1134126
(S) o-Terphenyl	*218*	J1			*18.0-148*		*07/08/2018 09:51*	WG1134126

Sample Narrative:

L1006220-04 WG1134126: Surrogate failure due to matrix interference

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.1		1	07/09/2018 13:57	WG1135214

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	245		0.957	10.0	12.0	1	07/08/2018 20:44	WG1132549

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	0.0372	J	0.0261	0.100	0.120	1	07/09/2018 03:40	WG1135170
(S) a,a,a-Trifluorotoluene(FID)	*102*				*77.0-120*		*07/09/2018 03:40*	WG1135170

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		0.000482	0.00100	0.00120	1	07/03/2018 21:52	WG1133251
Toluene	U		0.00150	0.00500	0.00602	1	07/03/2018 21:52	WG1133251
Ethylbenzene	U		0.000638	0.00250	0.00301	1	07/03/2018 21:52	WG1133251
Total Xylenes	U		0.00575	0.00650	0.00782	1	07/03/2018 21:52	WG1133251
(S) Toluene-d8	*108*				*80.0-120*		*07/03/2018 21:52*	WG1133251
(S) Dibromofluoromethane	*98.3*				*74.0-131*		*07/03/2018 21:52*	WG1133251
(S) a,a,a-Trifluorotoluene	*114*				*80.0-120*		*07/03/2018 21:52*	WG1133251
(S) 4-Bromofluorobenzene	*91.0*				*64.0-132*		*07/03/2018 21:52*	WG1133251

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	17.5		1.94	4.00	4.82	1	07/07/2018 19:39	WG1134126
C28-C40 Oil Range	20.9		0.330	4.00	4.82	1	07/07/2018 19:39	WG1134126
(S) o-Terphenyl	*65.1*				*18.0-148*		*07/07/2018 19:39*	WG1134126

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.6		1	07/09/2018 13:57	WG1135214

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	159		0.806	10.0	10.1	1	07/08/2018 20:53	WG1132549

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	0.0395	J	0.0220	0.100	0.101	1	07/09/2018 04:02	WG1135170
(S) a,a,a-Trifluorotoluene(FID)	*101*				*77.0-120*		*07/09/2018 04:02*	WG1135170

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		0.000406	0.00100	0.00101	1	07/03/2018 22:11	WG1133251
Toluene	U		0.00127	0.00500	0.00507	1	07/03/2018 22:11	WG1133251
Ethylbenzene	U		0.000537	0.00250	0.00254	1	07/03/2018 22:11	WG1133251
Total Xylenes	U		0.00485	0.00650	0.00659	1	07/03/2018 22:11	WG1133251
(S) Toluene-d8	*112*				*80.0-120*		*07/03/2018 22:11*	WG1133251
(S) Dibromofluoromethane	*98.8*				*74.0-131*		*07/03/2018 22:11*	WG1133251
(S) a,a,a-Trifluorotoluene	*113*				*80.0-120*		*07/03/2018 22:11*	WG1133251
(S) 4-Bromofluorobenzene	*96.5*				*64.0-132*		*07/03/2018 22:11*	WG1133251

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	86.3		1.63	4.00	4.06	1	07/07/2018 19:53	WG1134126
C28-C40 Oil Range	91.9		0.278	4.00	4.06	1	07/07/2018 19:53	WG1134126
(S) o-Terphenyl	*57.4*				*18.0-148*		*07/07/2018 19:53*	WG1134126

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.0		1	07/09/2018 13:57	WG1135214

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	125		0.811	10.0	10.2	1	07/08/2018 21:03	WG1132549

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	0.0356	J	0.0221	0.100	0.102	1	07/09/2018 04:23	WG1135170
(S) a,a,a-Trifluorotoluene(FID)	*102*				*77.0-120*		*07/09/2018 04:23*	WG1135170

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		0.000408	0.00100	0.00102	1	07/03/2018 23:56	WG1133251
Toluene	U		0.00128	0.00500	0.00510	1	07/03/2018 23:56	WG1133251
Ethylbenzene	U		0.000541	0.00250	0.00255	1	07/03/2018 23:56	WG1133251
Total Xylenes	U		0.00488	0.00650	0.00663	1	07/03/2018 23:56	WG1133251
(S) Toluene-d8	*114*				*80.0-120*		*07/03/2018 23:56*	WG1133251
(S) Dibromofluoromethane	*104*				*74.0-131*		*07/03/2018 23:56*	WG1133251
(S) a,a,a-Trifluorotoluene	*111*				*80.0-120*		*07/03/2018 23:56*	WG1133251
(S) 4-Bromofluorobenzene	*101*				*64.0-132*		*07/03/2018 23:56*	WG1133251

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	3.04	J	1.64	4.00	4.08	1	07/07/2018 19:12	WG1134126
C28-C40 Oil Range	7.60		0.280	4.00	4.08	1	07/07/2018 19:12	WG1134126
(S) o-Terphenyl	*90.6*				*18.0-148*		*07/07/2018 19:12*	WG1134126

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.9		1	07/09/2018 13:57	WG1135214

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	2500		4.52	10.0	56.9	5	07/08/2018 21:22	WG1132549

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	0.0315	J	0.0247	0.100	0.114	1	07/09/2018 04:45	WG1135170
(S) a,a,a-Trifluorotoluene(FID)	*101*				*77.0-120*		*07/09/2018 04:45*	WG1135170

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	07/04/2018 00:15	WG1133251
Toluene	U		0.00142	0.00500	0.00569	1	07/04/2018 00:15	WG1133251
Ethylbenzene	U		0.000603	0.00250	0.00284	1	07/04/2018 00:15	WG1133251
Total Xylenes	U		0.00544	0.00650	0.00740	1	07/04/2018 00:15	WG1133251
(S) Toluene-d8	*116*				*80.0-120*		*07/04/2018 00:15*	WG1133251
(S) Dibromofluoromethane	*91.4*				*74.0-131*		*07/04/2018 00:15*	WG1133251
(S) a,a,a-Trifluorotoluene	*110*				*80.0-120*		*07/04/2018 00:15*	WG1133251
(S) 4-Bromofluorobenzene	*99.5*				*64.0-132*		*07/04/2018 00:15*	WG1133251

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	07/07/2018 18:04	WG1134126
C28-C40 Oil Range	0.588	J	0.312	4.00	4.55	1	07/07/2018 18:04	WG1134126
(S) o-Terphenyl	*83.1*				*18.0-148*		*07/07/2018 18:04*	WG1134126

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.7		1	07/09/2018 10:29	WG1134518

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	242		0.950	10.0	11.9	1	07/08/2018 19:18	WG1132549

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	0.225		0.0259	0.100	0.119	1	07/11/2018 20:59	WG1136581
(S) a,a,a-Trifluorotoluene(FID)	*100*				*77.0-120*		*07/11/2018 20:59*	WG1136581

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		0.000478	0.00100	0.00119	1	07/12/2018 01:04	WG1136557
Toluene	0.00197	J	0.00149	0.00500	0.00597	1	07/12/2018 01:04	WG1136557
Ethylbenzene	0.00151	J	0.000633	0.00250	0.00299	1	07/12/2018 01:04	WG1136557
Total Xylenes	U		0.00571	0.00650	0.00776	1	07/12/2018 01:04	WG1136557
(S) Toluene-d8	*103*				*80.0-120*		*07/12/2018 01:04*	WG1136557
(S) Dibromofluoromethane	*98.6*				*74.0-131*		*07/12/2018 01:04*	WG1136557
(S) a,a,a-Trifluorotoluene	*104*				*80.0-120*		*07/12/2018 01:04*	WG1136557
(S) 4-Bromofluorobenzene	*106*				*64.0-132*		*07/12/2018 01:04*	WG1136557

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	405		9.62	4.00	23.9	5	07/10/2018 17:54	WG1134233
C28-C40 Oil Range	316		1.64	4.00	23.9	5	07/10/2018 17:54	WG1134233
(S) o-Terphenyl	*77.5*				*18.0-148*		*07/10/2018 17:54*	WG1134233

Method Blank (MB)

(MB) R3324155-1 07/09/18 10:49

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

L1006220-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1006220-01 07/09/18 10:49 • (DUP) R3324155-3 07/09/18 10:49

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	91.6	92.1	1	0.610		5

Laboratory Control Sample (LCS)

(LCS) R3324155-2 07/09/18 10:49

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) R3324277-1 07/09/18 10:29

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

L1006198-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1006198-11 07/09/18 10:29 • (DUP) R3324277-3 07/09/18 10:29

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	83.7	84.1	1	0.427		5

Laboratory Control Sample (LCS)

(LCS) R3324277-2 07/09/18 10:29

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) R3324229-1 07/09/18 13:57

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00300			

L1006215-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1006215-01 07/09/18 13:57 • (DUP) R3324229-3 07/09/18 13:57

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	87.8	89.0	1	1.33		5

Laboratory Control Sample (LCS)

(LCS) R3324229-2 07/09/18 13:57

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) R3324121-1 07/08/18 16:28

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

L1006198-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1006198-05 07/08/18 17:52 • (DUP) R3324121-4 07/08/18 18:02

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	158	168	1	6.05		15

L1006220-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1006220-07 07/08/18 21:03 • (DUP) R3324121-7 07/08/18 21:12

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	125	133	1	5.80		15

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

(LCS) R3324121-2 07/08/18 16:38 • (LCSD) R3324121-3 07/08/18 16:47

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	186	187	92.9	93.7	80.0-120			0.779	15

L1006220-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1006220-02 07/08/18 19:37 • (MS) R3324121-5 07/08/18 19:47 • (MSD) R3324121-6 07/08/18 19:56

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	532	124	611	599	91.6	89.2	1	80.0-120			2.06	15

Method Blank (MB)

(MB) R3323961-3 07/08/18 23:32

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)	*103*			*77.0-120*

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

(LCS) R3323961-1 07/08/18 22:27 • (LCSD) R3323961-2 07/08/18 22:49

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	6.13	6.69	112	122	70.0-136			8.68	20
(S) a,a,a-Trifluorotoluene(FID)				*98.8*	*99.2*	*77.0-120*				

L1006672-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1006672-08 07/09/18 07:19 • (MS) R3323961-4 07/09/18 07:41 • (MSD) R3323961-5 07/09/18 08:03

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 %
TPH (GC/FID) Low Fraction	5.50	183	238	265	40.1	59.8	25	10.0-147			10.7	30
(S) a,a,a-Trifluorotoluene(FID)					*107*	*111*		*77.0-120*				

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R3324985-6 07/11/18 17:05

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)	*104*			*77.0-120*

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

(LCS) R3324985-4 07/11/18 16:02 • (LCSD) R3324985-5 07/11/18 16:23

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	5.59	104	102	70.0-136			1.95	20
(S) a,a,a-Trifluorotoluene(FID)				*95.9*	*96.9*	*77.0-120*				

L1007994-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1007994-16 07/12/18 00:29 • (MS) R3324985-9 07/12/18 01:32 • (MSD) R3324985-10 07/12/18 01:53

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 %
TPH (GC/FID) Low Fraction	5.50	0.208	2.74	2.59	46.1	43.3	1	10.0-147			5.79	30
(S) a,a,a-Trifluorotoluene(FID)					*98.9*	*99.2*		*77.0-120*				

Method Blank (MB)

(MB) R3323585-3 07/03/18 20:17

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	*111*			*80.0-120*
(S) Dibromofluoromethane	*103*			*74.0-131*
(S) a,a,a-Trifluorotoluene	*109*			*80.0-120*
(S) 4-Bromofluorobenzene	*91.1*			*64.0-132*

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

(LCS) R3323585-1 07/03/18 19:01 • (LCSD) R3323585-2 07/03/18 19:20

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 %
Benzene	0.125	0.109	0.109	87.4	86.9	71.0-124			0.577	20
Ethylbenzene	0.125	0.115	0.117	91.9	94.0	77.0-120			2.21	20
Toluene	0.125	0.122	0.127	97.5	101	70.0-120			3.76	20
Xylenes, Total	0.375	0.308	0.311	82.1	82.9	77.0-120			0.969	20
(S) Toluene-d8				*106*	*108*	*80.0-120*				
(S) Dibromofluoromethane				*82.5*	*87.7*	*74.0-131*				
(S) a,a,a-Trifluorotoluene				*114*	*114*	*80.0-120*				
(S) 4-Bromofluorobenzene				*89.2*	*92.0*	*64.0-132*				

L1006220-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1006220-12 07/04/18 01:32 • (MS) R3323585-4 07/04/18 01:51 • (MSD) R3323585-5 07/04/18 02:10

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	0.155	U	0.0834	0.136	53.9	87.5	1	13.0-146		J3	47.6	27
Ethylbenzene	0.155	U	0.0826	0.140	53.3	90.6	1	10.0-147		J3	51.8	31
Toluene	0.155	U	0.0871	0.149	56.3	96.1	1	10.0-144		J3	52.3	28
Xylenes, Total	0.465	U	0.223	0.382	47.9	82.1	1	10.0-150		J3	52.6	31
(S) Toluene-d8					*107*	*107*		*80.0-120*				
(S) Dibromofluoromethane					*103*	*98.5*		*74.0-131*				
(S) a,a,a-Trifluorotoluene					*107*	*106*		*80.0-120*				
(S) 4-Bromofluorobenzene					*93.2*	*93.1*		*64.0-132*				

Method Blank (MB)

(MB) R3324975-2 07/11/18 22:28

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*			*80.0-120*
(S) Dibromofluoromethane	*97.1*			*74.0-131*
(S) a,a,a-Trifluorotoluene	*107*			*80.0-120*
(S) 4-Bromofluorobenzene	*106*			*64.0-132*

Laboratory Control Sample (LCS)

(LCS) R3324975-1 07/11/18 20:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.100	80.0	71.0-124	
Ethylbenzene	0.125	0.108	86.7	77.0-120	
Toluene	0.125	0.112	89.7	70.0-120	
Xylenes, Total	0.375	0.320	85.3	77.0-120	
(S) Toluene-d8			*106*	*80.0-120*	
(S) Dibromofluoromethane			*97.6*	*74.0-131*	
(S) a,a,a-Trifluorotoluene			*109*	*80.0-120*	
(S) 4-Bromofluorobenzene			*103*	*64.0-132*	

L1007996-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1007996-04 07/12/18 01:22 • (MS) R3324975-3 07/12/18 05:42 • (MSD) R3324975-4 07/12/18 06:01

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 %
Benzene	0.125	ND	0.125	0.118	99.8	94.0	1	13.0-146			5.91	27
Ethylbenzene	0.125	ND	0.127	0.123	102	98.5	1	10.0-147			3.19	31
Toluene	0.125	ND	0.138	0.133	110	107	1	10.0-144			3.38	28
Xylenes, Total	0.375	ND	0.384	0.365	102	97.3	1	10.0-150			5.07	31
(S) Toluene-d8					*107*	*107*		*80.0-120*				
(S) Dibromofluoromethane					*95.7*	*92.1*		*74.0-131*				
(S) a,a,a-Trifluorotoluene					*103*	*103*		*80.0-120*				
(S) 4-Bromofluorobenzene					*107*	*106*		*64.0-132*				

Method Blank (MB)

(MB) R3323839-1 07/07/18 16:16

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	*88.9*			*18.0-148*

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

(LCS) R3323839-2 07/07/18 16:30 • (LCSD) R3323839-3 07/07/18 16:43

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 %
C10-C28 Diesel Range	50.0	46.0	45.8	91.9	91.6	50.0-150			0.371	20
(S) o-Terphenyl				*104*	*101*	*18.0-148*				

Method Blank (MB)

(MB) R3324462-1 07/10/18 15:09

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	*97.2*			*18.0-148*

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

(LCS) R3324462-2 07/10/18 15:23 • (LCSD) R3324462-3 07/10/18 15:36

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	49.1	44.8	98.1	89.6	50.0-150			9.11	20
(S) o-Terphenyl				*103*	*98.7*	*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.
ND	Not detected at the 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
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.

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

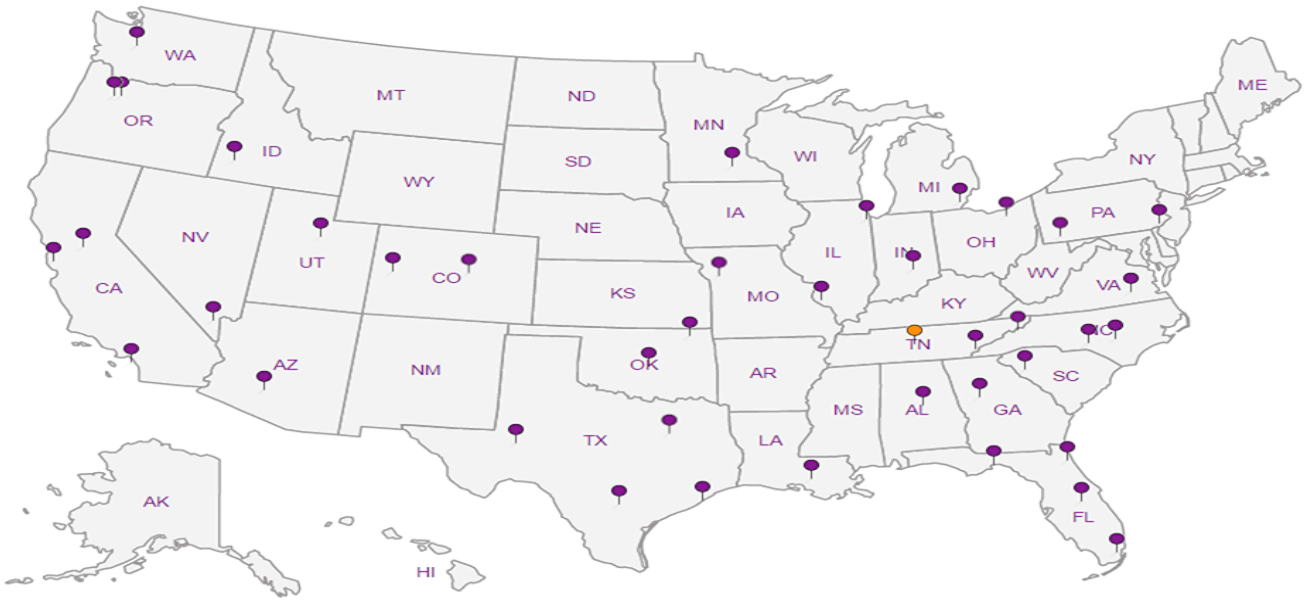
Third Party Federal Accreditations

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.



ConocoPhillips - Tetra Tech

4001 N. Big Spring St., Ste. 401
Midland, TX 79705

Billing Information:
Accounts Payable
4001 N. Big Spring St., Ste. 401
Midland, TX 79705

Report to: Kayla Taylor

Email To: Kayla Taylor

Project Description: Mck Batt 1

City/State Collected:

Phone: 432-687-8137

Fax:

Client Project #: 212C-MD-01235

Lab Project #

Collected by (print): Clint Moritt

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

ESC LABORATORIES

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615 758-5858
Phone: 800 767 5859
Fax: 615 758 5859

L# 106220

Table #

Acctnum: COPTETRA

Template:

Prelogin:

TSR: 526 - Chris McCord

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TPH	BTEX	Cl.	Remarks	Sample # (lab only)
WSW-2	—	SS	—	6/25	10:50	1	X	X	X		-01
ESW-2	—		—	6/25	10:55	1	X	X	X		-02
WSW-3	—		—	6/26	11:10	1	X	X	X		-03
ESW-3	—		—	6/26	11:05	1	X	X	X		-04
~~AH-3 (0-4)~~	—		—	6/26	—						
WSW-4	—		—	6/26	08:40	1	X	X	X		-05
ESW-4	—		—	6/26	08:50	1	X	X	X		-06
SSW-4	—		—	6/26	08:45	1	X	X	X		-07
~~AH-4 (3-7)~~	—		—	—	—						
AH-3 (4-5)	—		—	6/26	09:00	1	X	X	X		-08

* Matrix
S - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks

pH ___ Temp ___

Flow ___ Other ___

Samples returned via:
___ UPS ✓ FedEx ___ Courier ___

Tracking # 4550 6877 7939

Sample Receipt Checklist:
COC Seal Present/Intact: ✓NP Y N
COC Signed/Accurate: ✓Y N
Bottles arrive intact: ✓Y N
Correct bottles used: ✓Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by: (Signature)	Date:	Time	Received by: (Signature)
	6/29	17:00	
Relinquished by: (Signature)	Date:	Time	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time	Received for lab by: (Signature)

Trip Blank Received: Yes / No HCl / MeOH TBR

Temp: 3.1 °C Bottles Received: 12

If preservation required by Login: Date/Time

Date: 6/30/18 Time: 0845

Hold: Condition

ConocoPhillips - Tetra Tech

4001 N. Big Spring St., Ste. 401
Midland, TX 79705

Billing Information:
Accounts Payable
4001 N. Big Spring St., Ste. 401
Midland, TX 79705

Report to: Kayla Taylor

Email To: Kayla Taylor

Project Description: MCA Batt. 1 Excavation

City/State Collected: Lea Co. NM

Phone: 432-687-8137

Fax:

Client Project #: 212C-MD-01235

Lab Project #:

Collected by (print): Clint Moritt

Site/Facility ID #: Batt. 1

P.O. #:

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #:

Date Results Needed:

Analysis / Container / Preservative

Pres Chk

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No of Cntrs	TPH	BTEX	Cl.
NSW-1	-	SS	—	6/26	12:05	1	X	X	X

Chain of Custody Page 2 of 2

ESC LABORATORIES

2065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1006194

Table # L100620

Acctnum: COPTETRA

Template:

Prelogin:

TSR: 526 - Chris McCord

PB:

Shipped Via:

Remarks | Sample # (lab only)

-4 -13

* Matrix
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking # 4380 6877 7959

Sample Receipt Checklist:
COC Seal Present/Intact: ___Y __N
COC Signed/Accurate: ___Y __N
Bottles arrive intact: ___Y __N
Correct bottles used: ___Y __N
Sufficient volume sent: ___Y __N
If Applicable
VOA Zero Headspace: ___Y __N
Preservation Correct/Checked: ___Y __N

Relinquished by (Signature)	Date	Time	Received by (Signature)	Trip Blank Received: Yes / No HCl / MeOH TBR
Clint Moritt	6/29	17:00		
Relinquished by (Signature)	Date:	Time:	Received by (Signature)	Temp: 5.1°C Bottles Received: 11
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/30/18 Time: 0845

If preservation required by Login: Date/Time

Hold:

Condition: (NCF) / OK

Andy Vann

ESC Lab Sciences
Non-Conformance Form

Login #: 1006220	Client: COPTETRA	Date: 06/30/18	Evaluated by: Ian White

Non-Conformance (check applicable items)

	Sample Integrity		Chain of Custody Clarification		
	Parameter(s) past holding time		Login Clarification Needed		If Broken Container
	Improper temperature		Chain of custody is incomplete		Insufficient packing material around container
	Improper container type		Please specify Metals requested.		Insufficient packing material inside cooler
	Improper preservation		Please specify TCLP requested		Improper handling by carrier (FedEx / UPS / Courl
	Insufficient sample volume		Received additional samples not listed on coc.		Sample was frozen
	Sample is biphasic.		Sample ids on containers do not match ids on coc		Container lid not intact
	Vials received with headspace		Trip Blank not received		If no Chain of Custody:
	Broken container		Client did not "X" analysis		Received by:
	Broken container		Chain of Custody is missing		Date/Time
	Sufficient sample remains				Temp /Cont. Rec./pH
					Carrier.
					Tracking#

Login Comments, please specify TPH test

Client informed by		Call		Email		Voice Mail		Date: 7/2/18	Time: 10:19
TSR Initials: CM	Client Contact:								

Login Instructions:

Log for GRO, DRORLA

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

August 09, 2018

ConocoPhillips - Tetra Tech

Sample Delivery Group:	L1013823
Samples Received:	08/01/2018
Project Number:	212C-MD-01235
Description:	EUGSAU 2523-001
Site:	2923-001
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.

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

- NSW-1 L1013823-01 5
- WSW-1 L1013823-02 6
- ESW-1 L1013823-03 7
- AH-1 L1013823-04 8
- AH-4 L1013823-05 9

Qc: Quality Control Summary 10

- Total Solids by Method 2540 G-2011 10
- Wet Chemistry by Method 9056A 11
- Volatile Organic Compounds (GC) by Method 8015D/GRO 12
- Volatile Organic Compounds (GC/MS) by Method 8260B 13
- Semi-Volatile Organic Compounds (GC) by Method 8015 14

Gl: Glossary of Terms 15

Al: Accreditations & Locations 16

Sc: Sample Chain of Custody 17

NSW-1 L1013823-01 Solid

Collected by: Clint Merritt | Collected date/time: 07/30/18 17:20 | Received date/time: 08/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1146868	1	08/03/18 16:11	08/03/18 16:22	JD
Wet Chemistry by Method 9056A	WG1146152	1	08/02/18 13:17	08/03/18 02:55	MAJ
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1147164	1	08/01/18 16:16	08/04/18 14:53	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1147366	1	08/01/18 16:16	08/03/18 18:46	LRL
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1147041	1	08/06/18 13:00	08/06/18 19:53	MTJ

WSW-1 L1013823-02 Solid

Collected by: Clint Merritt | Collected date/time: 07/30/18 17:10 | Received date/time: 08/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1146868	1	08/03/18 16:11	08/03/18 16:22	JD
Wet Chemistry by Method 9056A	WG1146152	1	08/02/18 13:17	08/03/18 03:04	MAJ
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1147164	1	08/01/18 16:16	08/04/18 15:17	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1147366	1	08/01/18 16:16	08/03/18 19:06	LRL
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1147041	1	08/06/18 13:00	08/06/18 20:05	MTJ

ESW-1 L1013823-03 Solid

Collected by: Clint Merritt | Collected date/time: 07/30/18 17:15 | Received date/time: 08/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1146868	1	08/03/18 16:11	08/03/18 16:22	JD
Wet Chemistry by Method 9056A	WG1146152	1	08/02/18 13:17	08/03/18 03:12	MAJ
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1147164	1	08/01/18 16:16	08/04/18 15:41	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1147366	1	08/01/18 16:16	08/03/18 20:20	LRL
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1147041	1	08/06/18 13:00	08/06/18 20:18	MTJ

AH-1 L1013823-04 Solid

Collected by: Clint Merritt | Collected date/time: 07/30/18 17:05 | Received date/time: 08/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1146868	1	08/03/18 16:11	08/03/18 16:22	JD
Wet Chemistry by Method 9056A	WG1146152	1	08/02/18 13:17	08/03/18 03:21	MAJ
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1147164	1	08/01/18 16:16	08/04/18 16:05	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1147366	1	08/01/18 16:16	08/03/18 20:41	LRL
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1147041	1	08/06/18 13:00	08/06/18 20:31	MTJ

AH-4 L1013823-05 Solid

Collected by: Clint Merritt | Collected date/time: 07/30/18 17:00 | Received date/time: 08/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1146868	1	08/03/18 16:11	08/03/18 16:22	JD
Wet Chemistry by Method 9056A	WG1146152	1	08/02/18 13:17	08/03/18 03:30	MAJ
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1147164	1	08/01/18 16:16	08/04/18 16:29	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1147366	1	08/01/18 16:16	08/03/18 21:02	LRL
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1147041	10	08/06/18 13:00	08/06/18 22:12	MTJ

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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	94.5		1	08/03/2018 16:22	WG1146868

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	124		0.842	10.6	1	08/03/2018 02:55	WG1146152

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0310	J	0.0230	0.106	1	08/04/2018 14:53	WG1147164
(S) a,a,a-Trifluorotoluene(FID)	*99.4*			*77.0-120*		*08/04/2018 14:53*	WG1147164

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000423	0.00106	1	08/03/2018 18:46	WG1147366
Toluene	U		0.00132	0.00529	1	08/03/2018 18:46	WG1147366
Ethylbenzene	U		0.000561	0.00265	1	08/03/2018 18:46	WG1147366
Total Xylenes	U		0.00506	0.00688	1	08/03/2018 18:46	WG1147366
(S) Toluene-d8	*115*			*80.0-120*		*08/03/2018 18:46*	WG1147366
(S) Dibromofluoromethane	*106*			*74.0-131*		*08/03/2018 18:46*	WG1147366
(S) a,a,a-Trifluorotoluene	*99.3*			*80.0-120*		*08/03/2018 18:46*	WG1147366
(S) 4-Bromofluorobenzene	*104*			*64.0-132*		*08/03/2018 18:46*	WG1147366

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.70	4.23	1	08/06/2018 19:53	WG1147041
C28-C40 Oil Range	0.953	J	0.290	4.23	1	08/06/2018 19:53	WG1147041
(S) o-Terphenyl	*78.1*			*18.0-148*		*08/06/2018 19:53*	WG1147041

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.3		1	08/03/2018 16:22	WG1146868

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	88.0		0.861	10.8	1	08/03/2018 03:04	WG1146152

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0360	J	0.0235	0.108	1	08/04/2018 15:17	WG1147164
(S) a,a,a-Trifluorotoluene(FID)	*99.3*			*77.0-120*		*08/04/2018 15:17*	WG1147164

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000433	0.00108	1	08/03/2018 19:06	WG1147366
Toluene	U		0.00135	0.00542	1	08/03/2018 19:06	WG1147366
Ethylbenzene	U		0.000574	0.00271	1	08/03/2018 19:06	WG1147366
Total Xylenes	U		0.00518	0.00704	1	08/03/2018 19:06	WG1147366
(S) Toluene-d8	*118*			*80.0-120*		*08/03/2018 19:06*	WG1147366
(S) Dibromofluoromethane	*101*			*74.0-131*		*08/03/2018 19:06*	WG1147366
(S) a,a,a-Trifluorotoluene	*100*			*80.0-120*		*08/03/2018 19:06*	WG1147366
(S) 4-Bromofluorobenzene	*111*			*64.0-132*		*08/03/2018 19:06*	WG1147366

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.74	4.33	1	08/06/2018 20:05	WG1147041
C28-C40 Oil Range	1.04	J	0.297	4.33	1	08/06/2018 20:05	WG1147041
(S) o-Terphenyl	*84.0*			*18.0-148*		*08/06/2018 20:05*	WG1147041

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.5		1	08/03/2018 16:22	WG1146868

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	81.5		0.987	12.4	1	08/03/2018 03:12	WG1146152

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0360	J	0.0269	0.124	1	08/04/2018 15:41	WG1147164
(S) a,a,a-Trifluorotoluene(FID)	*99.5*			*77.0-120*		*08/04/2018 15:41*	WG1147164

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000497	0.00124	1	08/03/2018 20:20	WG1147366
Toluene	U		0.00155	0.00621	1	08/03/2018 20:20	WG1147366
Ethylbenzene	U		0.000658	0.00310	1	08/03/2018 20:20	WG1147366
Total Xylenes	U		0.00594	0.00807	1	08/03/2018 20:20	WG1147366
(S) Toluene-d8	*116*			*80.0-120*		*08/03/2018 20:20*	WG1147366
(S) Dibromofluoromethane	*102*			*74.0-131*		*08/03/2018 20:20*	WG1147366
(S) a,a,a-Trifluorotoluene	*100*			*80.0-120*		*08/03/2018 20:20*	WG1147366
(S) 4-Bromofluorobenzene	*104*			*64.0-132*		*08/03/2018 20:20*	WG1147366

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		2.00	4.97	1	08/06/2018 20:18	WG1147041
C28-C40 Oil Range	U		0.340	4.97	1	08/06/2018 20:18	WG1147041
(S) o-Terphenyl	*63.7*			*18.0-148*		*08/06/2018 20:18*	WG1147041

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.7		1	08/03/2018 16:22	WG1146868

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	444		0.973	12.2	1	08/03/2018 03:21	WG1146152

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0346	J	0.0265	0.122	1	08/04/2018 16:05	WG1147164
(S) a,a,a-Trifluorotoluene(FID)	*99.5*			*77.0-120*		*08/04/2018 16:05*	WG1147164

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000489	0.00122	1	08/03/2018 20:41	WG1147366
Toluene	U		0.00153	0.00612	1	08/03/2018 20:41	WG1147366
Ethylbenzene	U		0.000648	0.00306	1	08/03/2018 20:41	WG1147366
Total Xylenes	U		0.00585	0.00795	1	08/03/2018 20:41	WG1147366
(S) Toluene-d8	*116*			*80.0-120*		*08/03/2018 20:41*	WG1147366
(S) Dibromofluoromethane	*105*			*74.0-131*		*08/03/2018 20:41*	WG1147366
(S) a,a,a-Trifluorotoluene	*97.0*			*80.0-120*		*08/03/2018 20:41*	WG1147366
(S) 4-Bromofluorobenzene	*106*			*64.0-132*		*08/03/2018 20:41*	WG1147366

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.43	J	1.97	4.89	1	08/06/2018 20:31	WG1147041
C28-C40 Oil Range	6.09		0.335	4.89	1	08/06/2018 20:31	WG1147041
(S) o-Terphenyl	*34.5*			*18.0-148*		*08/06/2018 20:31*	WG1147041

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.2		1	08/03/2018 16:22	WG1146868

Wet Chemistry by Method 9056A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	50.9		0.844	10.6	1	08/03/2018 03:30	WG1146152

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0298	J	0.0230	0.106	1	08/04/2018 16:29	WG1147164
(S) a,a,a-Trifluorotoluene(FID)	*95.1*			*77.0-120*		*08/04/2018 16:29*	WG1147164

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000425	0.00106	1	08/03/2018 21:02	WG1147366
Toluene	U		0.00133	0.00531	1	08/03/2018 21:02	WG1147366
Ethylbenzene	U		0.000563	0.00266	1	08/03/2018 21:02	WG1147366
Total Xylenes	U		0.00508	0.00690	1	08/03/2018 21:02	WG1147366
(S) Toluene-d8	*117*			*80.0-120*		*08/03/2018 21:02*	WG1147366
(S) Dibromofluoromethane	*107*			*74.0-131*		*08/03/2018 21:02*	WG1147366
(S) a,a,a-Trifluorotoluene	*99.1*			*80.0-120*		*08/03/2018 21:02*	WG1147366
(S) 4-Bromofluorobenzene	*99.9*			*64.0-132*		*08/03/2018 21:02*	WG1147366

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	183		17.1	42.5	10	08/06/2018 22:12	WG1147041
C28-C40 Oil Range	294		2.91	42.5	10	08/06/2018 22:12	WG1147041
(S) o-Terphenyl	*103*			*18.0-148*		*08/06/2018 22:12*	WG1147041

Method Blank (MB)

(MB) R3331116-1 08/03/18 16:22

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

L1013823-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1013823-01 08/03/18 16:22 • (DUP) R3331116-3 08/03/18 16:22

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	94.5	94.3	1	0.178		10

Laboratory Control Sample (LCS)

(LCS) R3331116-2 08/03/18 16:22

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) R3330877-1 08/03/18 02:11

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

L1013827-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1013827-01 08/03/18 03:39 • (DUP) R3330877-4 08/03/18 04:05

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	8760	6750	20	25.9	J3	15

L1013827-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1013827-06 08/03/18 05:15 • (DUP) R3330877-7 08/03/18 05:24

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	7090	6910	20	2.70		15

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

(LCS) R3330877-2 08/03/18 02:20 • (LCSD) R3330877-3 08/03/18 02:28

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	204	203	102	102	80.0-120			0.542	15

L1013827-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1013827-03 08/03/18 04:23 • (MS) R3330877-5 08/03/18 04:31 • (MSD) R3330877-6 08/03/18 04:40

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	574	14300	14600	15500	54.3	213	1	80.0-120	E V	E V	6.03	15

Method Blank (MB)

(MB) R3331008-3 08/04/18 06:49

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)	*101*			*77.0-120*

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

(LCS) R3331008-1 08/04/18 05:37 • (LCSD) R3331008-2 08/04/18 06:01

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	5.73	5.76	104	105	70.0-136			0.656	20
(S) a,a,a-Trifluorotoluene(FID)				*105*	*106*	*77.0-120*				

Method Blank (MB)

(MB) R3330947-2 08/03/18 15:58

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	*111*			*80.0-120*
(S) Dibromofluoromethane	*110*			*74.0-131*
(S) a,a,a-Trifluorotoluene	*102*			*80.0-120*
(S) 4-Bromofluorobenzene	*97.0*			*64.0-132*

Laboratory Control Sample (LCS)

(LCS) R3330947-1 08/03/18 14:31

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.125	99.7	71.0-124	
Ethylbenzene	0.125	0.108	86.7	77.0-120	
Toluene	0.125	0.111	88.5	70.0-120	
Xylenes, Total	0.375	0.330	88.0	77.0-120	
(S) Toluene-d8			*106*	*80.0-120*	
(S) Dibromofluoromethane			*122*	*74.0-131*	
(S) a,a,a-Trifluorotoluene			*100*	*80.0-120*	
(S) 4-Bromofluorobenzene			*104*	*64.0-132*	

L1014310-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1014310-04 08/03/18 23:48 • (MS) R3330947-3 08/04/18 00:29 • (MSD) R3330947-4 08/04/18 00:50

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 %
Benzene	0.125	ND	0.823	0.878	132	140	5	13.0-146			6.47	27
Ethylbenzene	0.125	ND	0.818	0.850	129	134	5	10.0-147			3.78	31
Toluene	0.125	ND	0.800	0.795	128	127	5	10.0-144			0.580	28
Xylenes, Total	0.375	ND	2.59	2.60	138	139	5	10.0-150		J5	0.385	31
(S) Toluene-d8					*105*	*104*		*80.0-120*				
(S) Dibromofluoromethane					*111*	*112*		*74.0-131*				
(S) a,a,a-Trifluorotoluene					*97.6*	*98.4*		*80.0-120*				
(S) 4-Bromofluorobenzene					*96.7*	*110*		*64.0-132*				

Sample Narrative:

OS: Non-target compounds too high to run at a lower dilution.

Method Blank (MB)

(MB) R3331333-1 08/06/18 17:33

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	*88.2*			*18.0-148*

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

(LCS) R3331333-2 08/06/18 17:45 • (LCSD) R3331333-3 08/06/18 17:58

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	37.8	34.5	75.5	68.9	50.0-150			9.18	20
(S) o-Terphenyl				*77.8*	*72.5*	*18.0-148*				

L1013885-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1013885-02 08/06/18 20:56 • (MS) R3331333-4 08/06/18 21:08 • (MSD) R3331333-5 08/06/18 21:21

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 %
C10-C28 Diesel Range	50.0	33.3	83.3	68.4	100	70.1	2	50.0-150			19.7	20
(S) o-Terphenyl					*40.0*	*42.7*		*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.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(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 Reporting Limit (or MDL where applicable).
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.
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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.
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.
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.
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* 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

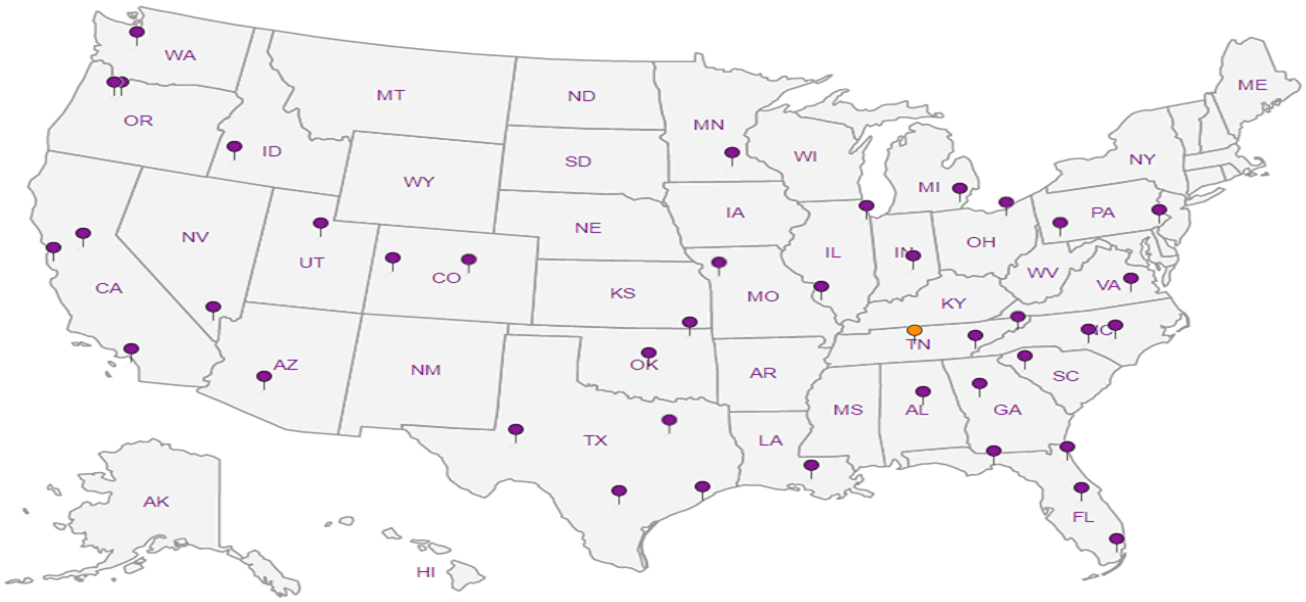
Third Party Federal Accreditations

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.



ConocoPhillips - Tetra Tech

4001 N. Big Spring St., Ste. 401
Midland, TX 79705

Billing Information:
Accounts Payable
4001 N. Big Spring St., Ste. 401
Midland, TX 79705

Report to: Kayla Taylor

Email To:

Project Description: EUNICE 2320-001

City/State Collected: Lea Co NM

Phone: 432-687-8137
Fax:

Client Project #: 212C-MD-01235

Lab Project #:

Collected by (print): Chat Moritt

Site/Facility ID #: 2320-001

P.O. #:

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #:

Date Results Needed:

Immediately Packed on Ice: N ___ Y ✓

Pres Chk

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No of Cntrs	BTEX 8260	TPH 8015	Cl-	Remarks	Sample # (lab only)
NSW-1	—	SS	—	7/30	17:20	1	X	X	X		01
WSW-1	—	SS	—		17:10	1	X	X	X		02
ESW-1	—	SS	—		17:15	1	X	X	X		03
AH-1	—	SS	(3'-4')		17:05	1	X	X	X		04
AH-4	—	SS	(2'-3')	↓	17:00	1	X	X	X		05
	—										

Chain of Custody Page ___ of ___

ESC
ANALYTICAL CHEMISTS
A subsidiary of ...

2065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1013923
F060

Acctnum: COPTETRA
Template:
Prelog:
TAT: 1-6 Chris McCord
PO:
Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Biossay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

pH ___ Temp ___
Flow ___ Other ___

Samples returned via:
___ UPS ___ FedEx ___ Courier ___

Tracking # 4430 3429 2432

Sample Receipt Checklist
COC Seal Present/Intact: NP ___ Y ___ N
COC Signed/Accurate: ___ Y ___ N
Bottles arrive intact: ___ Y ___ N
Correct bottles used: ___ Y ___ N
Sufficient volume sent: ___ Y ___ N
If Applicable
VOA Zero Headspace:
Preservation Correct/Checked: ___

Relinquished by (Signature)	Date	Time	Received by (Signature)	Trip Blank Received: Yes / No; HCL / MeoH; TBR
	7/30	1900	Kayla Taylor	
Relinquished by (Signature)	Date	Time	Received by (Signature)	Temp: 3.3 °C Bottles Received: 5
Kayla Taylor	7/31/18	1450		If preservation required by Login: Date/Time
Relinquished by (Signature)	Date	Time	Received for lab by (Signature)	Date: 8/1/18 Time: 0845
				Hold: Condition: NCF / OK

Matthew Lockhart

Pace Analytical®
National Center for Testing & Innovation

Login # 1013823	Client:COPTETRA	Date 08/01/18	Evaluated by Matthew Lockhart

Non-Conformance (check applicable items)

	Sample Integrity		Chain of Custody Clarification		
	Parameter(s) past holding time	X	Login Clarification Needed		**If Broken Container**
	Improper temperature		Chain of custody is incomplete		Insufficient packing material around container
	Improper container type		Please specify Metals requested.		Insufficient packing material inside cooler
	Improper preservation		Please specify TCLP requested.		Improper handling by carrier (FedEx / UPS / Courier)
	Insufficient sample volume		Received additional samples not listed on coc		Sample was frozen
	Sample is biphasic.		Sample ids on containers do not match ids on coc		Container lid not intact
	Vials received with headspace		Trip Blank not received		**If no Chain of Custody.**
	Broken container		Client did not "X" analysis		Received by
	Broken container		Chain of Custody is missing		Date/Time
	Sufficient sample remains				Temp /Cont. Rec /pH
					Carrier
					Tracking#

Log in Comments: client did not specify what TPH to run.

Client informed by	Call		Email		Voice Mail		Date: 8/1/18	Time: 11:19
TSR Initials: CM	Client Contact							

Login Instructions:

Log for GRO DRORLA

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

August 24, 2018

ConocoPhillips - Tetra Tech

Sample Delivery Group:	L1019180
Samples Received:	08/17/2018
Project Number:	212C-md-0125
Description:	MCA Battery 1

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

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

E SW-3 (5') L1019180-01 5

Qc: Quality Control Summary 6

Total Solids by Method 2540 G-2011 6

Volatile Organic Compounds (GC) by Method 8015D/GRO 7

Semi-Volatile Organic Compounds (GC) by Method 8015 8

Gl: Glossary of Terms 9

Al: Accreditations & Locations 10

Sc: Sample Chain of Custody 11

E SW-3 (5') L1019180-01 Solid

Collected by	Collected date/time	Received date/time
Halston Hunt	08/14/18 10:00	08/17/18 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1155363	1	08/21/18 17:22	08/21/18 17:31	KS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1155486	1	08/21/18 14:31	08/22/18 02:57	LRL
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1156211	1	08/22/18 21:24	08/23/18 16:07	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	86.0		1	08/21/2018 17:31	WG1155363

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0252	0.116	1	08/22/2018 02:57	WG1155486
(S) a,a,a-Trifluorotoluene(FID)	*96.6*			*77.0-120*		*08/22/2018 02:57*	WG1155486

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.91	J	1.87	4.65	1	08/23/2018 16:07	WG1156211
C28-C40 Oil Range	U		0.319	4.65	1	08/23/2018 16:07	WG1156211
(S) o-Terphenyl	*79.4*			*18.0-148*		*08/23/2018 16:07*	WG1156211

Method Blank (MB)

(MB) R3335655-1 08/21/18 17:31

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

L1019179-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1019179-02 08/21/18 17:31 • (DUP) R3335655-3 08/21/18 17:31

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	95.4	95.4	1	0.0677		10

Laboratory Control Sample (LCS)

(LCS) R3335655-2 08/21/18 17:31

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) R3335784-3 08/21/18 11:14

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)	*97.7*			*77.0-120*

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

(LCS) R3335784-1 08/21/18 10:09 • (LCSD) R3335784-2 08/21/18 10:31

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	4.93	5.05	89.6	91.9	70.0-136			2.52	20
(S) a,a,a-Trifluorotoluene(FID)				*96.4*	*97.2*	*77.0-120*				

L1019003-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1019003-17 08/22/18 04:24 • (MS) R3335784-4 08/22/18 04:46 • (MSD) R3335784-5 08/22/18 05:07

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 %
TPH (GC/FID) Low Fraction	5.50	ND	108	108	78.7	78.7	25	10.0-147			0.0364	30
(S) a,a,a-Trifluorotoluene(FID)					*97.1*	*96.9*		*77.0-120*				

Method Blank (MB)

(MB) R3336272-1 08/23/18 15:28

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	*81.7*			*18.0-148*

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

(LCS) R3336272-2 08/23/18 15:41 • (LCSD) R3336272-3 08/23/18 15:55

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	40.3	37.7	80.6	75.4	50.0-150			6.67	20
(S) o-Terphenyl				*79.3*	*75.5*	*18.0-148*				

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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

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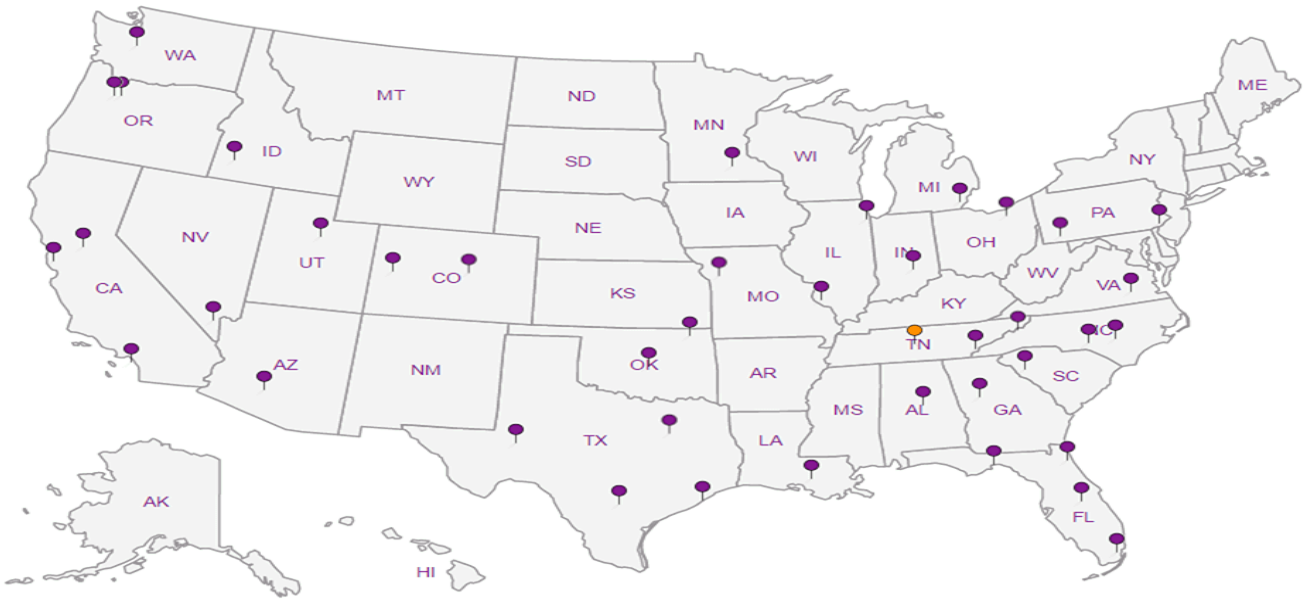
Our Locations

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.



ConocoPhillips - Tetra Tech

4001 N. Big Spring St., Ste. 401
Midland, TX 79705

Billing Information:
Accounts Payable
4001 N. Big Spring St., Ste. 401
Midland, TX 79705

Pres Chk

Analysis / Containers / Preservative

Chain of Custody Page ___ of ___

ESC LAB SCIENCES
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: Kayla.lovellytaylor@tetratech.com

Email To:

Project Description: MCA Battery 1

City/State Collected: NM

Phone: 432-687-8137
Fax:

Client Project #: 212C-MD-0125

Lab Project #

Collected by (print): Halston Hunt

Site/Facility ID #

P.O. #

Collected by (signature):
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Entrs

TPH MOD 8015D

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Entrs		Remarks	Sample # (lab only)
ESW-5(5')	G	SS	—	8-14-18	1000	1	X		-01

Lab # L1019180

E069

Acctnum: COPTETRA

Template:

Prelogin:

TSR: 526 - Chris McCord

PB

Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Biossay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

pH ___ Temp ___

Flow ___ Other ___

___ UPS ___ FedEx ___ Courier ___

Tracking # 4430 3429 2605

Sample Receipt Checklist

COC Seal Present/Intact: Y ___ N
COC Signed/Accurate: Y ___ N
Bottles arrive intact: Y ___ N
Correct bottles used: Y ___ N
Sufficient volume sent: Y ___ N
If Applicable
VOA Zero Headspace: ___ Y ___ N
Preservation Correct/Checked: ___ Y ___ N

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Trip Blank Received: Yes (No) HCL / MeOH TBR
Kayla Taylor	8-16-18	1045		
Relinquished by: (Signature)	Date	Time:	Received by: (Signature)	Temp: 1.0 °C Bottles Received: 1
				If preservation required by Login: Date/Time
Relinquished by: (Signature)	Date	Time:	Received for lab by: (Signature) 861	Date: 8/17/18 Time: 9:00
				Hold:

Condition: NCF / OK

N 8/17

Andy Vann

Pace Analytical®
National Center for Testing & Innovation

Login #:L1019180	Client: COPTETRA	Date:08/17/18	Evaluated by:Andy Vannx

Non-Conformance (check applicable items)

	Sample Integrity		Chain of Custody Clarification		
	Parameter(s) past holding time		Login Clarification Needed		If Broken Container:
	Improper temperature		Chain of custody is incomplete		Insufficient packing material around container
	Improper container type		Please specify Metals requested		Insufficient packing material inside cooler
	Improper preservation		Please specify TCLP requested		Improper handling by carrier (FedEx / UPS / Courl
	Insufficient sample vo me		Received additional samples not listed on coc.		Sample was frozen
	Sample is biphasic		Sample ids on containers do not match ids on coc		Container lid not intact
	Vials received with headspace		Trip Blank not received		If no Chain of Custody
	Broken container		Client did not "X" analysis.		Received by:
	Broken container		Chain of Custody is missing		Date/Time
	Sufficient sample remains				Temp /Cont. Rec./pH
					Carrier
					Tracking#

Login Comments: What TPH?

Client informed by:	Call	Email	Voice Mail	Date:8/20/18	Time.08 21
TSR Initials CM	Client Contact				

Login Instructions:

Log GRO, DRORLA

Appendix D

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-903984
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	CLINT MERRITT	Date:	6/19/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	1	Well Ser. #:	999908
Manif. Date:	6/19/2018	Well Name:	MCA UNIT
Hauler:	MCNABB PARTNERS	Well #:	BATTERY 1
Driver	LEO	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 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 # 1

SHIPPING FACILITY NAME & ADDRESS:
ConocoPhillips Company
600 N. Dairy Ashford Rd, Houston, TX 77079
Attn. Neal Goates
N.Goates@conocophillips.com
832.486.2425

LOCATION OF MATERIAL:
ConocoPhillips Co.
MCA Battery 1
Section 30 - Township 17 South - Range 32 East,
Lea County, New Mexico

TRANSPORTER NAME AND ADDRESS:

McNabb Partners
4008 N. Grimes
Hobbs, New Mexico 88240
575.397.0050

DESCRIPTION OF WASTE:
Impacted Soil

QUANTITY: 18 yards

FACILITY CONTACT:

Date: 6/12/18

Signature of Contact:
(Agent for ConocoPhillips)

NAME OF TRANSPORTER (Driver):

Date: 6-19-18

Signature Driver:

DISPOSAL SITE:

R360
P.O. Box 388
Hobbs, New Mexico 88241

Date: 6-19-18

Representative
Signature

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-904144
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	CLINT MERRITT	Date:	6/20/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	2	Well Ser. #:	999908
Manif. Date:	6/20/2018	Well Name:	MCA UNIT
Hauler:	MCNABB PARTNERS	Well #:	BATTERY 1
Driver	LEO	Field:	
Truck #	M32	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 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 # 2

SHIPPING FACILITY NAME & ADDRESS:
ConocoPhillips Company
600 N. Dairy Ashford Rd, Houston, TX 77079
Attn. Neal Goates
N.Goates@conocophillips.com
832.486.2425

LOCATION OF MATERIAL:
ConocoPhillips Co.
MCA Battery 1
Section 30 - Township 17 South - Range 32 East,
Lea County, New Mexico

TRANSPORTER NAME AND ADDRESS:

McNabb Partners
4008 N. Grimes
Hobbs, New Mexico 88240
575.397.0050

DESCRIPTION OF WASTE:
Impacted Soil

QUANTITY: 20 yards

FACILITY CONTACT:

Date: 6/20/18

Signature of Contact:
(Agent for ConocoPhillips)

NAME OF TRANSPORTER (Driver):

Date: 6-20-18

Signature Driver:

DISPOSAL SITE:

R360
P.O. Box 388
Hobbs, New Mexico 88241

Date: 6-2018

Representative
Signature

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-904232
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	CLINT MERRITT	Date:	6/20/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	3	Well Ser. #:	999908
Manif. Date:	6/20/2018	Well Name:	MCA UNIT
Hauler:	MCNABB PARTNERS	Well #:	BATTERY 1
Driver	LEO	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 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 # 3

SHIPPING FACILITY NAME & ADDRESS:
ConocoPhillips Company
600 N. Dairy Ashford Rd, Houston, TX 77079
Attn. Neal Goates
N.Goates@conocophillips.com
832.486.2425

LOCATION OF MATERIAL:
ConocoPhillips Co.
MCA Battery 1
Section 30 - Township 17 South - Range 32 East,
Lea County, New Mexico

TRANSPORTER NAME AND ADDRESS:

McNabb Partners
4008 N. Grimes
Hobbs, New Mexico 88240
575.397.0050

DESCRIPTION OF WASTE:
Impacted Soil

QUANTITY: 18 yds

FACILITY CONTACT:

Date: 6/20/18

Signature of Contact:
(Agent for ConocoPhillips)

NAME OF TRANSPORTER (Driver):

Date: 6-20-18

Signature Driver:

DISPOSAL SITE:

R360
P.O. Box 388
Hobbs, New Mexico 88241

Date: 6-20-18

Representative
Signature

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-904297
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	CLINT MERRITT	Date:	6/20/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	4	Well Ser. #:	999908
Manif. Date:	6/20/2018	Well Name:	MCA UNIT
Hauler:	MCNABB PARTNERS	Well #:	BATTERY 1
Driver	LEO	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 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 # 4

SHIPPING FACILITY NAME & ADDRESS:
ConocoPhillips Company
600 N. Dairy Ashford Rd, Houston, TX 77079
Attn. Neal Goates
N.Goates@conocophillips.com
832.486.2425

LOCATION OF MATERIAL:
ConocoPhillips Co.
MCA Battery 1
Section 30 - Township 17 South - Range 32 East,
Lea County, New Mexico

TRANSPORTER NAME AND ADDRESS:

McNabb Partners
4008 N. Grimes
Hobbs, New Mexico 88240
575.397.0050

DESCRIPTION OF WASTE:
Impacted Soil

QUANTITY: 18 yards

FACILITY CONTACT:

Date: 6/20/18

Signature of Contact:
(Agent for ConocoPhillips)

NAME OF TRANSPORTER (Driver):

Date: 6-20-18 Signature Driver:

DISPOSAL SITE:

R360
P.O. Box 388
Hobbs, New Mexico 88241

Date: 6-2018

Representative
Signature

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-904452
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	CLINT MERRITT	Date:	6/21/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	5	Well Ser. #:	999908
Manif. Date:	6/21/2018	Well Name:	MCA UNIT
Hauler:	MCNABB PARTNERS	Well #:	BATTERY 1
Driver	LEO	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 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 # 5

SHIPPING FACILITY NAME & ADDRESS:
ConocoPhillips Company
600 N. Dairy Ashford Rd, Houston, TX 77079
Attn. Neal Goates
N.Goates@conocophillips.com
832.486.2425

LOCATION OF MATERIAL:
ConocoPhillips Co.
MCA Battery 1
Section 30 - Township 17 South - Range 32 East,
Lea County, New Mexico

TRANSPORTER NAME AND ADDRESS:

McNabb Partners
4008 N. Grimes
Hobbs, New Mexico 88240
575.397.0050

DESCRIPTION OF WASTE:
Impacted Soil **QUANTITY:** 18 yds

FACILITY CONTACT:

Date: 6/21/18 Signature of Contact: (Agent for ConocoPhillips)

NAME OF TRANSPORTER (Driver):

Date: 6-21-18 Signature Driver:

DISPOSAL SITE:

R360
P.O. Box 388
Hobbs, New Mexico 88241

Date: Representative Signature

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-904528
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	CLINT MERRITT	Date:	6/21/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	6	Well Ser. #:	999908
Manif. Date:	6/21/2018	Well Name:	MCA UNIT
Hauler:	MCNABB PARTNERS	Well #:	BATTERY 1
Driver	HOWARD	Field:	
Truck #	M78	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 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 # 6

SHIPPING FACILITY NAME & ADDRESS:
ConocoPhillips Company
600 N. Dairy Ashford Rd, Houston, TX 77079
Attn. Neal Goates
N.Goates@conocophillips.com
832.486.2425

LOCATION OF MATERIAL:
ConocoPhillips Co.
MCA Battery 1
Section 30 - Township 17 South - Range 32 East,
Lea County, New Mexico

TRANSPORTER NAME AND ADDRESS:

McNabb Partners
4008 N. Grimes
Hobbs, New Mexico 88240
575.397.0050

DESCRIPTION OF WASTE:
Impacted Soil

QUANTITY: 20 yards

FACILITY CONTACT:

Date: 6/21/18

Signature of Contact:
(Agent for ConocoPhillips)

NAME OF TRANSPORTER (Driver):

Date: 6 21 18

Signature Driver:

DISPOSAL SITE:

R360
P.O. Box 388
Hobbs, New Mexico 88241

Date: 6-21-18

Representative
Signature

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-904645
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	CLINT MERRITT	Date:	6/21/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	7	Well Ser. #:	999908
Manif. Date:	6/21/2018	Well Name:	MCA UNIT
Hauler:	MCNABB PARTNERS	Well #:	BATTERY 1
Driver	LEO	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 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 # 7

SHIPPING FACILITY NAME & ADDRESS:
ConocoPhillips Company
600 N. Dairy Ashford Rd, Houston, TX 77079
Attn. Neal Goates
N.Goates@conocophillips.com
832.486.2425

LOCATION OF MATERIAL:
ConocoPhillips Co.
MCA Battery 1
Section 30 - Township 17 South - Range 32 East,
Lea County, New Mexico

TRANSPORTER NAME AND ADDRESS:

McNabb Partners
4008 N. Grimes
Hobbs, New Mexico 88240
575.397.0050

DESCRIPTION OF WASTE:
Impacted Soil

QUANTITY: 18 yds

FACILITY CONTACT:

Date: 6/21/18

Signature of Contact:
(Agent for ConocoPhillips)

NAME OF TRANSPORTER (Driver):

Date: 6-21-18

Signature Driver:

DISPOSAL SITE:

R360
P.O. Box 388
Hobbs, New Mexico 88241

Date: 6-21-18

Representative
Signature

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-904805
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	NEAL GOATES	Date:	6/22/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	20	Well Ser. #:	999908
Manif. Date:	6/22/2018	Well Name:	MCA UNIT
Hauler:	MCNABB PARTNERS	Well #:	BATTERY 1
Driver	HOWARD	Field:	
Truck #	78	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 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 # 20

SHIPPING FACILITY NAME & ADDRESS:

Company: ConocoPhillips
Address: 600 N. Dairy Ashford, Houston Tx
Project Lead: ATTN: Neal Goates

LOCATION OF MATERIAL:

Location: ConocoPhillips
Company: MCA Battery 1

S 30 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 yards

FACILITY CONTACT:

Date: 6.22.18 Contact Signature: (Agent for ConocoPhillips) Kayla Saylor

NAME OF TRANSPORTER: (Driver)

Date: Driver Signature:

DISPOSAL SITE:

Name of Disposal:
Address:
Date: Representative Signature:

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-904807
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	KAYLA TAYLOR	Date:	6/22/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	21	Well Ser. #:	999908
Manif. Date:	6/22/2018	Well Name:	MCA UNIT
Hauler:	MCNABB PARTNERS	Well #:	BATTERY 1
Driver	LEO	Field:	
Truck #	M-32	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 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 # 21

SHIPPING FACILITY NAME & ADDRESS:

Company: ConocoPhillips
Address: 600 N. Dairy Ashford, Houston TX
Project Lead: Neal Goates
N.Goates@conocophillips.com

LOCATION OF MATERIAL:

Location: ConocoPhillips
Company: MCA Battery 1

S 30 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 yd

FACILITY CONTACT:

Date: 6/22/18 Contact Signature: (Agent for ConocoPhillips) Kayla Saylor

NAME OF TRANSPORTER: (Driver)

Date: 6-22-18 Driver Signature:

DISPOSAL SITE:

Name of Disposal:
Address:
Date: Representative Signature:

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-904855
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	KAYLA TAYLOR	Date:	6/22/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	22	Well Ser. #:	999908
Manif. Date:	6/22/2018	Well Name:	MCA UNIT
Hauler:	MCNABB PARTNERS	Well #:	BATTERY 1
Driver	LEO	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 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 # 22

SHIPPING FACILITY NAME & ADDRESS:

Company: ConocoPhillips Co.
Address: 600 N. Dairy Ashford, Houston, TX
Project Lead: Attn: Neal Goates
N.Goates@conocophillips.com

LOCATION OF MATERIAL:

Location: ConocoPhillips CB
Company: MCA Battery 1

S 30 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: 6/22/18 Contact Signature: (Agent for ConocoPhillips) Kayla Saylor

NAME OF TRANSPORTER: (Driver)

Date: 6-22-18 Driver Signature:

DISPOSAL SITE:

Name of Disposal:
Address:
Date:

Representative Signature: T Martinez

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-904887
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	NEAL GOATES	Date:	6/22/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	23	Well Ser. #:	999908
Manif. Date:	6/22/2018	Well Name:	MCA UNIT
Hauler:	MCNABB PARTNERS	Well #:	BATTERY 1
Driver	LEO	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 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 # 23

SHIPPING FACILITY NAME & ADDRESS:

Company: ConocoPhillips Co.
Address: 600 N. Dairy Ashford, Houston, TX
Project Lead: ATTN: Neal Goates
N.Goates@conocophillips.com

LOCATION OF MATERIAL:

Location: Conoco Phillips Co.
Company: MCA Battery 1

S 30 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 yd.

FACILITY CONTACT:

Date: ~~18 yd~~ KT 6/22/18 Contact Signature: Kayla Jaylor
(Agent for ConocoPhillips)

NAME OF TRANSPORTER: (Driver)

Date: 6-22-18 Driver Signature:

DISPOSAL SITE:

Name of Disposal:
Address:
Date: Representative Signature:

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-904929
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	NEAL GOATES	Date:	6/22/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	24	Well Ser. #:	999908
Manif. Date:	6/22/2018	Well Name:	MCA UNIT
Hauler:	MCNABB PARTNERS	Well #:	BATTERY 1
Driver	LEO	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 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 # 24

SHIPPING FACILITY NAME & ADDRESS:

Company: ConocoPhillips Co.
Address: 600 N. Dairy Ashford, Houston, TX
Project Lead: ATTN: Ned Goates
N. Goates @ conocophillips.com

LOCATION OF MATERIAL:

Location: ConocoPhillips Co.
Company: MCA Battery 1

S 30 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 yd

FACILITY CONTACT:

Date: 6/22/18 Contact Signature: (Agent for ConocoPhillips) Kayla Saylor

NAME OF TRANSPORTER: (Driver)

Date: 6-22-18 Driver Signature:

DISPOSAL SITE:

Name of Disposal:
Address:
Date: Representative Signature:

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-905547
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	CLINT MERRITT	Date:	6/25/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	8	Well Ser. #:	999908
Manif. Date:	6/25/2018	Well Name:	MCA UNIT
Hauler:	MCNABB PARTNERS	Well #:	BATTERY 1
Driver	LEO	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 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 # 8

SHIPPING FACILITY NAME & ADDRESS:
ConocoPhillips Company
600 N. Dairy Ashford Rd, Houston, TX 77079
Attn. Neal Goates
N.Goates@conocophillips.com
832.486.2425

LOCATION OF MATERIAL:
ConocoPhillips Co.
MCA Battery 1
Section 30 - Township 17 South - Range 32 East,
Lea County, New Mexico

TRANSPORTER NAME AND ADDRESS:

McNabb Partners
4008 N. Grimes
Hobbs, New Mexico 88240
575.397.0050

DESCRIPTION OF WASTE:
Impacted Soil

QUANTITY: 18 yds

FACILITY CONTACT:

Date: 6/25/18

Signature of Contact:
(Agent for ConocoPhillips)

NAME OF TRANSPORTER (Driver):

Date: 6-25-18

Signature Driver:

DISPOSAL SITE:

R360
P.O. Box 388
Hobbs, New Mexico 88241

Date:

Representative
Signature

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-905576
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	CLINT MERRITT	Date:	6/25/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	NA	Well Ser. #:	999908
Manif. Date:	6/25/2018	Well Name:	MCA UNIT
Hauler:	MCNABB PARTNERS	Well #:	BATTERY 1
Driver	LEO	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 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 # 9

SHIPPING FACILITY NAME & ADDRESS:
ConocoPhillips Company
600 N. Dairy Ashford Rd, Houston, TX 77079
Attn. Neal Goates
N.Goates@conocophillips.com
832.486.2425

LOCATION OF MATERIAL:
ConocoPhillips Co.
MCA Battery 1
Section 30 - Township 17 South - Range 32 East,
Lea County, New Mexico

TRANSPORTER NAME AND ADDRESS:

McNabb Partners
4008 N. Grimes
Hobbs, New Mexico 88240
575.397.0050

DESCRIPTION OF WASTE:
Impacted Soil

QUANTITY: 18 yards

FACILITY CONTACT:

Date: 6/25/18

Signature of Contact:
(Agent for ConocoPhillips)

NAME OF TRANSPORTER (Driver):

Date: 6.25.18

Signature Driver:

DISPOSAL SITE:

R360
P.O. Box 388
Hobbs, New Mexico 88241

Date:

Representative
Signature

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-905610
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	CLINT MERRITT	Date:	6/25/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	10	Well Ser. #:	999908
Manif. Date:	6/25/2018	Well Name:	MCA UNIT
Hauler:	MCNABB PARTNERS	Well #:	BATTERY 1
Driver	JOE	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 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 # 10

SHIPPING FACILITY NAME & ADDRESS:
ConocoPhillips Company
600 N. Dairy Ashford Rd, Houston, TX 77079
Attn. Neal Goates
N.Goates@conocophillips.com
832.486.2425

LOCATION OF MATERIAL:
ConocoPhillips Co.
MCA Battery 1
Section 30 - Township 17 South - Range 32 East,
Lea County, New Mexico

TRANSPORTER NAME AND ADDRESS:

McNabb Partners
4008 N. Grimes
Hobbs, New Mexico 88240
575.397.0050

DESCRIPTION OF WASTE:
Impacted Soil

QUANTITY: 20 yards

FACILITY CONTACT:

Date: 6/25/18

Signature of Contact:
(Agent for ConocoPhillips)

NAME OF TRANSPORTER (Driver):

Date: 6-25-18

Signature Driver:

DISPOSAL SITE:

R360
P.O. Box 388
Hobbs, New Mexico 88241

Date: 6-25-18

Representative
Signature

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-905629
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	CLINT MERRITT	Date:	6/25/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	11	Well Ser. #:	999908
Manif. Date:	6/25/2018	Well Name:	MCA UNIT
Hauler:	MCNABB PARTNERS	Well #:	BATTERY 1
Driver	LEO	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 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

SHIPPING FACILITY NAME & ADDRESS:
ConocoPhillips Company
600 N. Dairy Ashford Rd, Houston, TX 77079
Attn. Neal Goates
N.Goates@conocophillips.com
832.486.2425

LOCATION OF MATERIAL:
ConocoPhillips Co.
MCA Battery 1
Section 30 - Township 17 South - Range 32 East,
Lea County, New Mexico

TRANSPORTER NAME AND ADDRESS:

McNabb Partners
4008 N. Grimes
Hobbs, New Mexico 88240
575.397.0050

DESCRIPTION OF WASTE:
Impacted Soil

QUANTITY: 18 bbls

FACILITY CONTACT:

Date: 6/25/18

Signature of Contact:
(Agent for ConocoPhillips)

NAME OF TRANSPORTER (Driver):

Date: 6-25-18

Signature Driver:

DISPOSAL SITE:

R360
P.O. Box 388
Hobbs, New Mexico 88241

Date: 6/25/18

Representative
Signature

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-905640
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	CLINT MERRITT	Date:	6/25/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	12	Well Ser. #:	999908
Manif. Date:	6/25/2018	Well Name:	MCA UNIT
Hauler:	MCNABB PARTNERS	Well #:	BATTERY 1
Driver	JOE	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 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 # 12

SHIPPING FACILITY NAME & ADDRESS:
ConocoPhillips Company
600 N. Dairy Ashford Rd, Houston, TX 77079
Attn. Neal Goates
N.Goates@conocophillips.com
832.486.2425

LOCATION OF MATERIAL:
ConocoPhillips Co.
MCA Battery 1
Section 30 - Township 17 South - Range 32 East,
Lea County, New Mexico

TRANSPORTER NAME AND ADDRESS:

McNabb Partners
4008 N. Grimes
Hobbs, New Mexico 88240
575.397.0050

DESCRIPTION OF WASTE:
Impacted Soil

QUANTITY: 20 yards

FACILITY CONTACT:

Date: 6/25/18

Signature of Contact:
(Agent for ConocoPhillips)

NAME OF TRANSPORTER (Driver):

Date: 6-25-18

Signature Driver:

DISPOSAL SITE:

R360
P.O. Box 388
Hobbs, New Mexico 88241

Date: 6-25-18

Representative
Signature

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-905681
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	CLINT MERRITT	Date:	6/25/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	14	Well Ser. #:	999908
Manif. Date:	6/25/2018	Well Name:	MCA UNIT
Hauler:	MCNABB PARTNERS	Well #:	BATTERY 1
Driver	LEO	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 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 # 14

SHIPPING FACILITY NAME & ADDRESS:
ConocoPhillips Company
600 N. Dairy Ashford Rd, Houston, TX 77079
Attn. Neal Goates
N.Goates@conocophillips.com
832.486.2425

LOCATION OF MATERIAL:
ConocoPhillips Co.
MCA Battery 1
Section 30 - Township 17 South - Range 32 East,
Lea County, New Mexico

TRANSPORTER NAME AND ADDRESS:

McNabb Partners
4008 N. Grimes
Hobbs, New Mexico 88240
575.397.0050

DESCRIPTION OF WASTE:
Impacted Soil **QUANTITY:** 18 yards

FACILITY CONTACT:

Date: 6/25/18 Signature of Contact: (Agent for ConocoPhillips)

NAME OF TRANSPORTER (Driver):

Date: 6-25-18 **Signature Driver:**

DISPOSAL SITE:

R360
P.O. Box 388
Hobbs, New Mexico 88241

Date: Representative Signature

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-905688
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	CLINT MERRITT	Date:	6/25/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	23	Well Ser. #:	999908
Manif. Date:	6/25/2018	Well Name:	MCA UNIT
Hauler:	MCNABB PARTNERS	Well #:	BATTERY 1
Driver	JOE	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 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 # 23

SHIPPING FACILITY NAME & ADDRESS:
ConocoPhillips Company
600 N. Dairy Ashford Rd, Houston, TX 77079
Attn. Neal Goates
N.Goates@conocophillips.com
832.486.2425

LOCATION OF MATERIAL:
ConocoPhillips Co.
MCA Battery 1
Section 30 - Township 17 South - Range 32 East,
Lea County, New Mexico

TRANSPORTER NAME AND ADDRESS:

McNabb Partners
4008 N. Grimes
Hobbs, New Mexico 88240
575.397.0050

DESCRIPTION OF WASTE:
Impacted Soil

QUANTITY: 16 yards 20 yards

FACILITY CONTACT:

Date: 6/25/18

Signature of Contact:
(Agent for ConocoPhillips)

NAME OF TRANSPORTER (Driver):

Date: 6-25-18

Signature Driver:

DISPOSAL SITE:

R360
P.O. Box 388
Hobbs, New Mexico 88241

Date: 6-25-18

Representative
Signature JN

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-905841
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	CLINT MERRITT	Date:	6/26/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	15	Well Ser. #:	999908
Manif. Date:	6/26/2018	Well Name:	MCA UNIT
Hauler:	MCNABB PARTNERS	Well #:	BATTERY 1
Driver	LEO	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 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 # 15

SHIPPING FACILITY NAME & ADDRESS:
ConocoPhillips Company
600 N. Dairy Ashford Rd, Houston, TX 77079
Attn. Neal Goates
N.Goates@conocophillips.com
832.486.2425

LOCATION OF MATERIAL:
ConocoPhillips Co.
MCA Battery 1
Section 30 - Township 17 South - Range 32 East,
Lea County, New Mexico

TRANSPORTER NAME AND ADDRESS:

McNabb Partners
4008 N. Grimes
Hobbs, New Mexico 88240
575.397.0050

DESCRIPTION OF WASTE:
Impacted Soil **QUANTITY:** 18 yards

FACILITY CONTACT:

Date: 6/26/18 Signature of Contact: (Agent for ConocoPhillips)

NAME OF TRANSPORTER (Driver):

Date: 6.26.18 Signature Driver:

DISPOSAL SITE:

R360
P.O. Box 388
Hobbs, New Mexico 88241

Date: Representative Signature

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-905842
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	CLINT MERRITT	Date:	6/26/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	16	Well Ser. #:	999908
Manif. Date:	6/26/2018	Well Name:	MCA UNIT
Hauler:	MCNABB PARTNERS	Well #:	BATTERY 1
Driver	GUMER	Field:	
Truck #	M31	Field #:	
Card #		Rig:	NON-DRILLING
Job Ref #		County	LEA (NM)

Facility: CRI

Product / Service	Quantity	Units
Contaminated Soil (RCRA Exempt)	15.00	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 # 16

SHIPPING FACILITY NAME & ADDRESS:
ConocoPhillips Company
600 N. Dairy Ashford Rd, Houston, TX 77079
Attn. Neal Goates
N.Goates@conocophillips.com
832.486.2425

LOCATION OF MATERIAL:
ConocoPhillips Co.
MCA Battery 1
Section 30 - Township 17 South - Range 32 East,
Lea County, New Mexico

TRANSPORTER NAME AND ADDRESS:

McNabb Partners
4008 N. Grimes
Hobbs, New Mexico 88240
575.397.0050

DESCRIPTION OF WASTE:
Impacted Soil

QUANTITY: [redacted] 15 yards

FACILITY CONTACT:

Date: 6/26/18

Signature of Contact:
(Agent for ConocoPhillips)

NAME OF TRANSPORTER (Driver):

Date: 6-26-18

Signature Driver:

DISPOSAL SITE:

R360
P.O. Box 388
Hobbs, New Mexico 88241

Date:

Representative
Signature

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-905908
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	CLINT MERRITT	Date:	6/26/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	17	Well Ser. #:	999908
Manif. Date:	6/26/2018	Well Name:	MCA UNIT
Hauler:	MCNABB PARTNERS	Well #:	BATTERY 1
Driver	LEO	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 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 # 17

SHIPPING FACILITY NAME & ADDRESS:
ConocoPhillips Company
600 N. Dairy Ashford Rd, Houston, TX 77079
Attn. Neal Goates
N.Goates@conocophillips.com
832.486.2425

LOCATION OF MATERIAL:
ConocoPhillips Co.
MCA Battery 1
Section 30 - Township 17 South - Range 32 East,
Lea County, New Mexico

TRANSPORTER NAME AND ADDRESS:

McNabb Partners
4008 N. Grimes
Hobbs, New Mexico 88240
575.397.0050

DESCRIPTION OF WASTE:
Impacted Soil

QUANTITY: 18 yards

FACILITY CONTACT:

Date: 6/26/18

Signature of Contact:
(Agent for ConocoPhillips)

NAME OF TRANSPORTER (Driver):

Date: 6-26-18

Signature Driver: Cleo Luna

DISPOSAL SITE:

R360
P.O. Box 388
Hobbs, New Mexico 88241

Date:

Representative
Signature

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-905909
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	CLINT MERRITT	Date:	6/26/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	18	Well Ser. #:	999908
Manif. Date:	6/26/2018	Well Name:	MCA UNIT
Hauler:	MCNABB PARTNERS	Well #:	BATTERY 1
Driver	GUMER	Field:	
Truck #	M31	Field #:	
Card #		Rig:	NON-DRILLING
Job Ref #		County	LEA (NM)

Facility: CRI

Product / Service	Quantity	Units
Contaminated Soil (RCRA Exempt)	15.00	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 # 18

SHIPPING FACILITY NAME & ADDRESS:
ConocoPhillips Company
600 N. Dairy Ashford Rd, Houston, TX 77079
Attn. Neal Goates
N.Goates@conocophillips.com
832.486.2425

LOCATION OF MATERIAL:
ConocoPhillips Co.
MCA Battery 1
Section 30 - Township 17 South - Range 32 East,
Lea County, New Mexico

TRANSPORTER NAME AND ADDRESS:

McNabb Partners
4008 N. Grimes
Hobbs, New Mexico 88240
575.397.0050

DESCRIPTION OF WASTE:
Impacted Soil

QUANTITY: 15 yards

FACILITY CONTACT:

Date: 6/26/18

Signature of Contact:
(Agent for ConocoPhillips)

NAME OF TRANSPORTER (Driver):

Date: 6-26-18

Signature Driver:

DISPOSAL SITE:

R360
P.O. Box 388
Hobbs, New Mexico 88241

Date: 6/26/18

Representative
Signature

TRANSPORTER'S MANIFEST

MANIFEST # 2

SHIPPING FACILITY NAME & ADDRESS: MCA Battery 1 - RMR Project

Company: ConocoPhillips Co.
Address: 600 N. Dairy Ashford Rd
Project Lead: Houston Tx 77079 Neal Gaster (N.Gaster@conocophillips.com

GL Acct: 702000
WBS Element: WA0.eap.4071.06

LOCATION OF MATERIAL:

Location:
Company:

S 30 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:** 10 Yards

FACILITY CONTACT:

Date: 8/ Contact Signature: (Agent for ConocoPhillips) Houston Hunt

NAME OF TRANSPORTER: (Driver)

Date: Driver Signature:

DISPOSAL SITE:

Name of Disposal:
Address:
Date: Representative Signature:

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-920261
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	NEAL GOATES	Date:	8/13/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	2	Well Ser. #:	999908
Manif. Date:	8/13/2018	Well Name:	MCA UNIT
Hauler:	MCNABB PARTNERS	Well #:	BATTERY 1
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)	11.00 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 # 1

SHIPPING FACILITY NAME & ADDRESS:

NCA Battery 1 – RMR Project
GL Acct: 702000
WBS Element: WA0.000.7071.00.R

Company: ConocoPhillips Co.
Address: 600 N. Dairy Ashford Rd.
Houston, TX 77079
Project Lead: Neal Goates (N.Goates@conocophillips.com) PO # _____

LOCATION OF MATERIAL:

Location:
Company:

S 30 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:** 10 yards

FACILITY CONTACT:

Date: 8/13/18 Contact Signature: (Agent for ConocoPhillips) Kayla Saylor

NAME OF TRANSPORTER: (Driver)

Date: Driver Signature: Leonor Rdz

DISPOSAL SITE:

Name of Disposal:
Address:
Date: Representative Signature:

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

Customer:	CONOCOPHILLIPS	Ticket #:	700-920205
Customer #:	CRI2190	Bid #:	O6UJ9A0009Z1
Ordered by:	NEAL GOATES	Date:	8/13/2018
AFE #:		Generator:	CONOCOPHILLIPS
PO #:		Generator #:	
Manifest #:	1	Well Ser. #:	999908
Manif. Date:	8/13/2018	Well Name:	MCA UNIT
Hauler:	MCNABB PARTNERS	Well #:	BATTERY 1
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 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: _____