

Trinity Oilfield Services & Rentals, LLC

Remediation Summary & Site Closure Request



Company: OXY USA, Inc. Address: P.O. Box 4294, Houston, TX 77210 Telephone #: (575) 390-2828

Site Name: Covington A Federal 0002 NMOCD Reference#: 1RP-4816

Surface Owner: US BLM Mineral Owner: US BLM

Unit Letter: D (NW/NW) Section: 25 Township: 22S Range: 32E County: Lea GPS Coordinates: 32.36912 N -103.63420 W

Depth to Ground Water: 435' - 440' Distance to Surface Water Body: ☐ <200' ☐ 200' - 1,000' ☒ >1,000'

Wellhead Protection Area: <1,000' from Water Source or <200' from Domestic Water Source? ☐ Y ☒ N

NMOCD Ranking Score: 0 Soil Remediation Levels (mg/kg): Benzene: 10 BTEX: 50 TPH: ☐ 100 Chloride: ☐ 250
☐ 1,000 ☒ 600
☒ 5,000

Date/Time of Release: 8/29/2017 Type of Release: Produced Water & Crude Oil Approximate Volume of Release: See Below

Background Information:

On August 29, 2017, OXY USA, Inc. (OXY), discovered a release at the Covington A Federal 0002 (Covington A) production well. A stuffing box leak resulted in the release of approximately 6 barrels (bbls) of produced water and 4 bbls of crude oil, with no recovery. The released fluid and overspray affected an area of the caliche well pad measuring approximately 6,000 square feet. An area of the pasture adjacent to the pad measuring approximately 90 square feet was also affected. The stuffing box was repaired during initial response activities.

The release was reported to the New Mexico Oil Conservation Division's (NMOCD) Hobbs District Office and the United States Department of the Interior - Bureau of Land Management's (BLM) Carlsbad District Office on September 1, 2017. The NMOCD "Release Notification & Corrective Action" form (C-141) is provided as Appendix A. General photographs of the release site are provided in Appendix C. A "Site Location Map" is provided as Figure 1.

Summary of Field Activities:

On September 13, 2017, Trinity Oilfield Services & Rentals, LLC (Trinity), collected one (1) soil sample (SP-1) and advanced four (4) hand-augered boreholes (SP-2 through SP-5) at the release site to investigate the extent of impacted soil. Soil sample SP-1 was collected approximately 6 inches below ground surface (bgs) in the small, secondary pooling area in the pasture adjacent to the Covington A well pad. The auger holes were advanced to the extent practicable along the flow path and in the primary pooling area of the release on the well pad itself. Total depths of the auger holes ranged from approximately 2.5 feet bgs (SP-3 and SP-4) to 3 feet bgs (SP-2 and SP-5). Soil samples collected at 6-inch to 1-foot vertical intervals were field-screened with a chloride test kit, and representative soil samples were submitted to Xenco Laboratories in Midland, Texas, for analysis of total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and/or chloride concentrations using Environmental Protection Agency (EPA) Methods SW 846-8015 Mod, SW 846-8021B, and 300, respectively. Laboratory analytical results and field screens indicated additional delineation to determine the vertical extent of chloride contamination was required. However, TPH and BTEX constituent concentrations were below the NMOCD "Recommended Remediation Action Levels" (RRALs) established for the site, with the exception of soil sample SP-1 @ 6", which exhibited a TPH concentration of 8,390 mg/kg.

On September 21, 2017, four (4) delineation trenches were advanced at the site to further investigate the vertical extent of impacted soil on the well pad. The trenches were advanced in the areas represented by auger holes SP-2 through SP-5 to total depths ranging from 7 feet bgs (SP-3) to 14.5 feet bgs (SP-5). Soil samples collected at 1- to 2-foot vertical intervals were field-screened with a chloride test kit, and confirmation samples were submitted to the laboratory for analysis of TPH, BTEX, and chloride concentrations. Laboratory analytical results and field screens indicated that vertical delineation of the flow path and primary pooling area of the release had been achieved.

On October 16, 2017, a hand-augered borehole was advanced in the area represented by soil sample SP-1 to further investigate the vertical extent of impact in the secondary pooling area of the release. The auger hole was advanced to a total depth of 3.5 feet bgs. Soil samples collected at 6-inch to 1-foot vertical intervals were field-screened utilizing

Trinity Oilfield Services & Rentals, LLC

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Summary of Field Activities (cont.):

olfactory and visual senses, and representative soil samples were submitted to the laboratory for analysis of TPH, BTEX, and chloride concentrations. Laboratory analytical results indicated that vertical delineation of the secondary pooling area had been achieved.

On January 3, 2018, pursuant to the NMOCD- and BLM-approved "Environmental Site Summary & Spill Remediation Plan", dated October 27, 2017 (henceforth referred to as "Work Plan"), Trinity commenced excavation activities at the release site. A chloride test kit and olfactory/visual senses were utilized to determine the horizontal extent of impacted soil and to guide the excavation. From January 3 through January 24, 2018, the excavation was advanced horizontally to the extent indicated by concurrent field-screening and vertically to the depths listed in the approved Work Plan and/or in subsequent correspondence between representatives of Trinity and the NMOCD:

- 3 to 6 inches in the overspray area and immediately adjacent to the on-site pump jack and well.
- 1.5 to 2 feet bgs in the area represented by auger hole SP-1.
- 2 feet bgs in the areas represented by auger holes/delineation trenches SP-2 and SP-3.
- 4 feet bgs in the areas represented by auger holes/delineation trenches SP-4 and SP-5.

All excavated soil was transported to Lea Land, Inc. (NMOCD Permit #WM-01-035), for disposal. Prior to disposal, the excavated soil was stockpiled on-site on 6-mil plastic to prevent leaching of contaminants into the vadose zone.

On January 8, 2018, four (4) confirmation soil samples (SP-4 Wall, SP-5 Wall, SP-6 Wall, and SP-7 Wall) collected from the sidewalls of the excavation were submitted to the laboratory for analysis of TPH, BTEX, and chloride concentrations. Laboratory analytical results indicated all contaminant concentrations were below the RRALs established for the site, and horizontal delineation of those areas had been achieved.

On January 12, 2018, five (5) confirmation soil samples (SP-8 Wall, SP-9 Wall, SP-10 Wall, SP-11 Wall, and SP-12 Wall) collected from the sidewalls of the excavation were submitted to the laboratory for analysis of TPH, BTEX, and chloride concentrations. Laboratory analytical results indicated all contaminant concentrations were below the RRALs established for the site, and horizontal delineation of those areas had been achieved.

On January 16, 2018, pursuant to NMOCD request, two (2) soil samples (SP-13 and SP-14) were collected from the overspray area and field-screened with a chloride test kit. The results suggested that the overspray may have commingled with a historical release. A hand auger was then utilized to advance boreholes at the sample locations to determine the extent of impacted soil. Soil samples collected at 6-inch vertical intervals were field-screened with a chloride test kit, and two (2) confirmation samples (SP-13 @ 1' and SP-14 @ 1') were submitted to the laboratory for analysis of TPH, BTEX, and chloride concentrations. Laboratory analytical results indicated all contaminant concentrations were below the RRALs established for the site, and vertical delineation of the area had been achieved.

On January 17, 2018, a secondary excavation in the overspray area was advanced vertically to 1 foot bgs and horizontally until chloride field test results and olfactory/visual senses suggested contaminant concentrations were below the RRALs established for the site. Seven (7) confirmation soil samples (SP-15 Wall, SP-16 Wall, SP-17 Wall, SP-17 Wall b, SP-18 Wall, SP-19 Wall, and SP-20 Wall) collected from the sidewalls of the excavation were submitted to the laboratory for analysis of TPH, BTEX, and chloride concentrations. Laboratory analytical results indicated all contaminant concentrations were below the RRALs established for the site, and delineation of the secondary excavation had been achieved.

On January 24, 2018, three (3) confirmation soil samples (SP-1 Wall, SP-2 Wall, and SP-3 Wall) collected from the sidewalls of the primary excavation were submitted to the laboratory for analysis of TPH, BTEX, and chloride concentrations. Laboratory analytical results indicated all contaminant concentrations were below the RRALs established for the site, and horizontal delineation of those areas had been achieved.

Based on laboratory analytical results and field screens, permission to line and backfill the excavation was obtained from the NMOCD and BLM on March 15 and March 21, 2018, respectively.

From March 26 through 28, 2018, the excavation was backfilled with non-impacted material, compacted, and contoured

Trinity Oilfield Services & Rentals, LLC

Remediation Summary & Site Closure Request



Summary of Field Activities (cont.):

to fit the surrounding topography. Prior to backfilling, felt padding and a 20-mil plastic liner were installed on the floor of the excavation (i.e., 4 feet bgs) in the area represented by auger holes/delineation trenches SP-4 and SP-5 and soil samples SP-8 Wall through SP-12 Wall.

Site Closure Request:

Soil samples collected from the sidewalls of the primary and secondary excavations at the Covington A release site were analyzed by an NMOCD-approved laboratory, and concentrations of TPH, BTEX, and chloride were below the RRALs established for the site.

The release site was excavated to the extent practicable. A 20-mil plastic liner was installed on the floor of the excavation in the areas represented by auger holes/delineation trenches SP-4 and SP-5 and soil samples SP-8 Wall through SP-12 Wall. This engineered control will effectively inhibit vertical migration of contaminants remaining in-situ.

Trinity recommends OXY provide the NMOCD Hobbs District Office and the BLM a copy of this "Remediation Summary & Site Closure Request" and request the NMOCD grant closure to the Covington A release site.

Enclosures:

Figure 1: Site Location Map

Figure 2: Sample Location Map

Table 1: Concentrations of Benzene, BTEX, TPH & Chloride in Soil

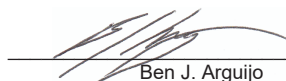
Table 2: Chloride Field Tests

Appendix A: Release Notification & Corrective Action (Form C-141)

Appendix B: Depth-to-Groundwater Data

Appendix C: Photographs

Appendix D: Laboratory Analytical Results

 3/29/2018
Ben J. Arguijo
Project Manager

Figures



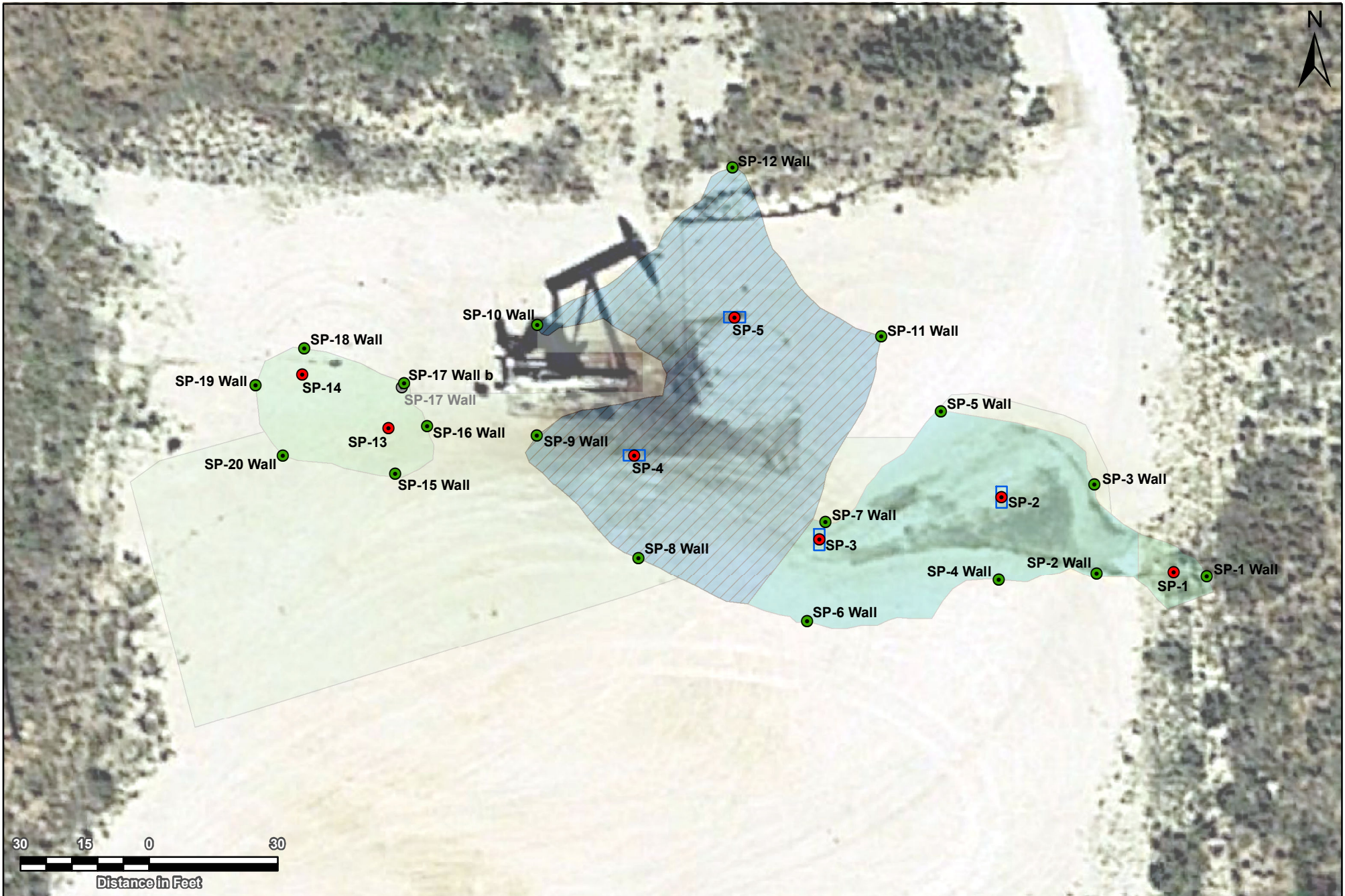
2,000 1,000 0 2,000
Distance in Feet

Figure 1
Site Location Map
OXY USA, Inc.
Covington A Federal 0002
Lea County, New Mexico
NMOCD Reference #: 1RP-4816



Trinity Oilfield Services & Rentals, LLC
P.O. Box 2587
Hobbs, NM 88241

Drawn By: BJA	Checked By: CTR
September 18, 2017	Scale: 1" = 2,000'



Legend	
Excavation Depth	
3" - 6" bgs	Proposed Liner
1' bgs	Delineation Trench
1.5' - 2' bgs	Auger Hole
2' bgs	Sample Location
4' bgs	Excavated Sample

Figure 2
Sample Location Map
OXY USA, Inc.
Covington A Federal 0002
Lea County, New Mexico
NMOCD Reference #: 1RP-4816



Trinity Oilfield Services & Rentals, LLC
P.O. Box 2587
Hobbs, NM 88241

Drawn By: BJA	Checked By: CTR
March 12, 2018	Scale: 1" = 30'

Tables

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

OXY USA, INC.
COVINGTON A FEDERAL 0002
LEA COUNTY, NEW MEXICO
NMOCD REF. #: 1RP-4816



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030							METHOD: 8015M				300.1
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M,P-XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	EXT DRO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
NMOCD Recommended Remediation Action Levels (RRALs)				10	NE	NE	NE	NE	NE	50	NE	NE	NE	5,000	600
SP-1 @ 6"	6"	9/13/2017	Excavated	-	-	-	-	-	-	-	170	7,140	1,080	8,390	80.6
SP-1 @ 2'	2'	10/16/2017	In-Situ	<0.0037	<0.0037	<0.0037	<0.0067	<0.0037	<0.0037	<0.0037	<15.0	1,710	420	2,130	20.0
SP-1 @ 3.5'	3.5'	10/16/2017	In-Situ	<0.0033	<0.0033	<0.0033	<0.0066	<0.0033	<0.0033	<0.0033	<15.0	1,020	185	1,210	328
SP-2 @ 6"	6"	9/13/2017	Excavated	<0.0033	0.0388	0.0331	0.345	0.149	0.494	0.566	65.6	2,150	390	2,610	6,610
SP-2 @ 2.5'	2.5'	9/13/2017	In-Situ	<0.0034	<0.0034	<0.0034	<0.0068	<0.0034	<0.0034	<0.0034	<15.0	<15.0	<15.0	<15.0	492
SP-2 @ 3'	3'	9/13/2017	In-Situ	<0.0034	0.0034	<0.0034	0.0124	0.0058	0.0182	0.0215	<15.0	73.9	<15.0	73.9	290
SP-2 @ 4.5'	4.5'	9/21/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	56.6
SP-2 @ 6'	6'	9/21/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	313
SP-2 @ 7'	7'	9/21/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	868
SP-2 @ 8.5'	8.5'	9/21/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	58.7
SP-3 @ 6"	6"	9/13/2017	Excavated	<0.0036	0.0039	0.0063	0.0760	0.0487	0.125	0.135	16.9	405	72.4	494	5,210
SP-3 @ 2.5'	2.5'	9/13/2017	In-Situ	<0.0020	<0.0020	<0.0020	0.0074	0.0058	0.0131	0.0131	<15.0	63.2	<15.0	63.2	254
SP-3 @ 4'	4'	9/21/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<14.9	<14.9	<14.9	<14.9	450
SP-3 @ 6'	6'	9/21/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	361
SP-3 @ 7'	7'	9/21/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	85.8	<15.0	85.8	389
SP-4 @ 6"	6"	9/13/2017	Excavated	<0.0035	0.0057	0.0075	0.0760	0.0097	0.0857	0.0989	<15.0	379	61.0	440	5,640
SP-4 @ 1.5'	1.5'	9/13/2017	Excavated	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	95.3
SP-4 @ 2.5'	2.5'	9/13/2017	Excavated	<0.0020	<0.0020	<0.0020	<0.0040	0.0044	0.0044	0.0044	<14.9	17.7	<14.9	17.7	102
SP-4 @ 4.5'	4.5'	9/21/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	2,140
SP-4 @ 8'	8'	9/21/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	597
SP-4 @ 9.5'	9.5'	9/21/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	101
SP-5 @ 6"	6"	9/13/2017	Excavated	<0.0040	0.0100	0.0177	0.146	0.0763	0.222	0.250	16.3	526	91.4	634	624
SP-5 @ 1.5'	1.5'	9/13/2017	Excavated	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	55.3	<15.0	55.3	1,120
SP-5 @ 3'	3'	9/13/2017	Excavated	<0.0020	<0.0020	<0.0020	0.0167	0.0125	0.0292	0.0292	<15.0	49.9	<15.0	49.9	1,360
SP-5 @ 4'	4'	9/21/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	22.9	<15.0	22.9	4,120
SP-5 @ 9.5'	9.5'	9/21/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	728
SP-5 @ 10.5'	10.5'	9/21/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<14.9	<14.9	<14.9	<14.9	1,410
SP-5 @ 13.5'	13.5'	9/21/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	365
SP-5 @ 14.5'	14.5'	9/21/2017	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	20.1	<15.0	20.1	490

NE = Not established

- = Not analyzed

Concentrations in BOLD exceed NMOCD RRAL

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

OXY USA, INC.
COVINGTON A FEDERAL 0002
LEA COUNTY, NEW MEXICO
NMOCD REF. #: 1RP-4816



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030							METHOD: 8015M				300.1
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	M,P-XYLENES (mg/Kg)	O-XYLENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	EXT DRO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
NMOCD Recommended Remediation Action Levels (RRALs)				10	NE	NE	NE	NE	NE	50	NE	NE	NE	5,000	600
SP-4 Wall	2'	1/8/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	320
SP-5 Wall	2'	1/8/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	92.7
SP-6 Wall	2'	1/8/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	520
SP-7 Wall	2'	1/8/2018	In-Situ	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<15.0	<15.0	<15.0	<15.0	358
SP-8 Wall	3'	1/12/2018	In-Situ	<0.0187	<0.0187	<0.0187	<0.0375	<0.0187	<0.0187	<0.0187	<3.75	<25.0	<25.0	<25.0	<25.0
SP-9 Wall	3'	1/12/2018	In-Situ	<0.0199	<0.0199	<0.0199	<0.0398	<0.0199	<0.0199	<0.0199	<3.98	<25.0	<25.0	<25.0	149
SP-10 Wall	3'	1/12/2018	In-Situ	<0.0195	<0.0195	<0.0195	<0.0389	<0.0195	<0.0195	<0.0195	<3.89	<25.0	<25.0	<25.0	486
SP-11 Wall	3'	1/12/2018	In-Situ	<0.0199	<0.0199	<0.0199	<0.0398	<0.0199	<0.0199	<0.0199	<3.98	<25.0	<25.0	<25.0	135
SP-12 Wall	3'	1/12/2018	In-Situ	<0.0196	<0.0196	<0.0196	<0.0391	<0.0196	<0.0196	<0.0196	<3.91	<25.0	<25.0	<25.0	492
SP-13 @ 1'	1'	1/16/2018	In-Situ	<0.0180	<0.0180	<0.0180	<0.0360	<0.0180	<0.0180	<0.0180	<3.60	<25.0	<25.0	<25.0	593
SP-14 @ 1'	1'	1/16/2018	In-Situ	<0.0197	<0.0197	<0.0197	<0.0394	<0.0197	<0.0197	<0.0197	<3.94	<25.0	<25.0	<25.0	90.7
SP-15 Wall	1'	1/17/2018	In-Situ	<0.0196	<0.0196	<0.0196	<0.0392	<0.0196	<0.0196	<0.0196	<3.92	<25.0	<25.0	<25.0	464
SP-16 Wall	1'	1/17/2018	In-Situ	<0.0192	<0.0192	<0.0192	<0.0383	<0.0192	<0.0192	<0.0192	<3.83	<25.0	<25.0	<25.0	489
SP-17 Wall	1'	1/17/2018	Excavated	<0.0189	<0.0189	<0.0189	<0.0379	<0.0189	<0.0189	<0.0189	<3.79	<25.0	<25.0	<25.0	691
SP-17 Wall b	1'	1/17/2018	In-Situ	<0.0174	<0.0174	<0.0174	<0.0348	<0.0174	<0.0174	<0.0174	<3.48	<25.0	<25.0	<25.0	410
SP-18 Wall	1'	1/17/2018	In-Situ	<0.0184	<0.0184	<0.0184	<0.0368	<0.0184	<0.0184	<0.0184	<3.68	<25.0	<25.0	<25.0	172
SP-19 Wall	1'	1/17/2018	In-Situ	<0.0183	<0.0183	<0.0183	<0.0366	<0.0183	<0.0183	<0.0183	<3.66	<25.0	<25.0	<25.0	157
SP-20 Wall	1'	1/17/2018	In-Situ	<0.0175	<0.0175	<0.0175	<0.0350	<0.0175	<0.0175	<0.0175	<3.50	<25.0	<25.0	<25.0	314
SP-1 Wall	1.5'	1/24/2018	In-Situ	<0.0033	<0.0033	<0.0033	<0.0067	<0.0033	<0.0033	<0.0033	<15.0	<15.0	<15.0	<15.0	10.6
SP-2 Wall	2'	1/24/2018	In-Situ	<0.0020	0.0031	<0.0020	<0.0040	<0.0020	<0.0020	0.0031	<15.0	<15.0	<15.0	<15.0	134
SP-3 Wall	2'	1/24/2018	In-Situ	<0.0020	0.0030	<0.0020	<0.0040	<0.0020	<0.0020	0.0030	<15.0	<15.0	<15.0	<15.0	289

NE = Not established

- = Not analyzed

Concentrations in BOLD exceed NMOCD RRAL

**TABLE 2
CHLORIDE FIELD TESTS**

**OXY USA, INC.
COVINGTON A FEDERAL 0002
LEA COUNTY, NEW MEXICO
NMOCD REF. #: 1RP-4816**



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	HACH QUANTAB
				CHLORIDE (mg/Kg)
NMOCD Recommended Remediation Action Level (RRAL)				600
SP-1 @ 6"	6"	9/13/2017	Excavated	<128
SP-2 @ 6"	6"	9/13/2017	Excavated	16,828
SP-2 @ 1.5'	1.5'	9/13/2017	Excavated	560
SP-2 @ 2.5'	2.5'	9/13/2017	In-Situ	356
SP-2 @ 3'	3'	9/13/2017	In-Situ	1,224
SP-2 @ 4.5'	4.5'	9/21/2017	In-Situ	356
SP-2 @ 6'	6'	9/21/2017	In-Situ	1,780
SP-2 @ 7'	7'	9/21/2017	In-Situ	472
SP-2 @ 8.5'	8.5'	9/21/2017	In-Situ	<128
SP-3 @ 6"	6"	9/13/2017	Excavated	6,224
SP-3 @ 1.5'	1.5'	9/13/2017	Excavated	2,340
SP-3 @ 2.5'	2.5'	9/13/2017	In-Situ	1,532
SP-3 @ 4'	4'	9/21/2017	In-Situ	1,224
SP-3 @ 6'	6'	9/21/2017	In-Situ	320
SP-3 @ 7'	7'	9/21/2017	In-Situ	<128
SP-4 @ 6"	6"	9/13/2017	Excavated	1,920
SP-4 @ 1.5'	1.5'	9/13/2017	Excavated	1,420
SP-4 @ 2.5'	2.5'	9/13/2017	Excavated	1,648
SP-4 @ 4.5'	4.5'	9/21/2017	In-Situ	1,780
SP-4 @ 7'	7'	9/21/2017	In-Situ	1,136
SP-4 @ 8'	8'	9/21/2017	In-Situ	776
SP-4 @ 9.5'	9.5'	9/21/2017	In-Situ	204
SP-5 @ 6"	6"	9/13/2017	Excavated	3,560
SP-5 @ 1.5'	1.5'	9/13/2017	Excavated	836
SP-5 @ 2.5'	2.5'	9/13/2017	Excavated	2,225
SP-5 @ 3'	3'	9/13/2017	Excavated	2,780
SP-5 @ 4'	4'	9/21/2017	In-Situ	4,180
SP-5 @ 6'	6.0'	9/21/2017	In-Situ	2,076
SP-5 @ 8'	8.0'	9/21/2017	In-Situ	1,224
SP-5 @ 9.5'	9.5'	9/21/2017	In-Situ	776
SP-5 @ 10.5'	10.5'	9/21/2017	In-Situ	1,420
SP-5 @ 12'	12'	9/21/2017	In-Situ	836
SP-5 @ 13.5'	13.5'	9/21/2017	In-Situ	356
SP-5 @ 14.5'	14.5'	9/21/2017	In-Situ	512
SP-3 Wall	2'	1/3/2018	Excavated	944
SP-4 Wall	2'	1/8/2018	In-Situ	376

Concentrations in BOLD exceed the NMOCD RRAL

**TABLE 2
CHLORIDE FIELD TESTS**

**OXY USA, INC.
COVINGTON A FEDERAL 0002
LEA COUNTY, NEW MEXICO
NMOCD REF. #: 1RP-4816**



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	HACH QUANTAB
				CHLORIDE (mg/Kg)
NMOCD Recommended Remediation Action Level (RRAL)				600
SP-5 Wall	2'	1/8/2018	In-Situ	180
SP-6 Wall	2'	1/8/2018	In-Situ	496
SP-7 Wall	2'	1/8/2018	In-Situ	376
SP-8 Wall	3'	1/12/2018	Excavated	876
SP-8 Wall	3'	1/12/2018	In-Situ	<128
SP-9 Wall	3'	1/12/2018	Excavated	1,548
SP-9 Wall	3'	1/12/2018	Excavated	812
SP-9 Wall	3'	1/12/2018	In-Situ	208
SP-10 Wall	3'	1/12/2018	Excavated	876
SP-10 Wall	3'	1/12/2018	Excavated	876
SP-10 Wall	3'	1/12/2018	In-Situ	496
SP-11 Wall	3'	1/12/2018	Excavated	812
SP-11 Wall	3'	1/12/2018	In-Situ	208
SP-12 Wall	3'	1/12/2018	Excavated	1,088
SP-12 Wall	3'	1/12/2018	Excavated	812
SP-12 Wall	3'	1/12/2018	In-Situ	496
SP-13 @ Surface	Surface	1/16/2018	Excavated	6,224
SP-13 @ 1'	1'	1/16/2018	In-Situ	544
SP-13 @ 2'	2'	1/16/2018	In-Situ	208
SP-14 @ Surface	Surface	1/16/2018	Excavated	5,744
SP-14 @ 1'	1'	1/16/2018	In-Situ	128
SP-15 Wall	1'	1/17/2018	In-Situ	456
SP-16 Wall	1'	1/17/2018	In-Situ	496
SP-17 Wall	1'	1/17/2018	Excavated	592
SP-17 Wall b	1'	1/17/2018	In-Situ	376
SP-18 Wall	1'	1/17/2018	In-Situ	208
SP-19 Wall	1'	1/17/2018	In-Situ	180

Concentrations in BOLD exceed the NMOCD RRAL

**TABLE 2
CHLORIDE FIELD TESTS**

**OXY USA, INC.
COVINGTON A FEDERAL 0002
LEA COUNTY, NEW MEXICO
NMOCD REF. #: 1RP-4816**



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	HACH QUANTAB
				CHLORIDE (mg/Kg)
NMOCD Recommended Remediation Action Level (RRAL)				600
SP-20 Wall	1'	1/17/2018	In-Situ	268
SP-1 Wall	2'	1/24/2018	In-Situ	<124
SP-2 Wall	2'	1/24/2018	In-Situ	180
SP-3 Wall	2'	1/24/2018	In-Situ	272

Concentrations in BOLD exceed the NMOCD RRAL

Appendices

Appendix A

Release Notification &

Corrective Action (Form C-141)

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 April 3, 2017

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	OXY USA, Inc.	Contact	Wade Dittrich
Address	P.O. Box 4294, Houston, TX 77210	Telephone No.	(575)390-2828
Facility Name	Covington A Federal 0002	Facility Type	P&E

Surface Owner	Federal	Mineral Owner	Federal	API No.	30-025-31850
---------------	---------	---------------	---------	---------	--------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	25	22S	32 25 E	330	N	650	W	Lea

Latitude 32.369120 Longitude -103.6342 NAD83

NATURE OF RELEASE

Type of Release	Produced water & crude oil	Volume of Release	8 bbls Produced Water & 4 bbls Crude Oil	Volume Recovered	0 bbls
Source of Release	Stuffing box leak	Date and Hour of Occurrence	8/29/2017, Time unknown	Date and Hour of Discovery	8/29/2017, 12:00 PM
Was Immediate Notice Given?	☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	Olivia Yu - NMOCD; Shirley Tucker - BLM		
By Whom?	Wade Dittrich	Date and Hour	9/1/2017, 8:42 AM		
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

RECEIVED

By Olivia Yu at 4:15 pm, Sep 20, 2017

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Spill caused by a stuffing box leak. The stuffing box has been repaired.

Describe Area Affected and Cleanup Action Taken.*

The released fluid and overspray affected an area of the well pad measuring approximately 6,000 sq. ft. An area of the pasture adjacent to the pad measuring approximately 90 sq. ft. was also impacted. Remediation of the impacted area will be conducted in accordance with NMOCD and BLM guidelines.

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: 		OIL CONSERVATION DIVISION	
Printed Name: Wade Dittrich		Approved by Environmental Specialist: 	
Title: Environmental Coordinator		Approval Date: 9/20/2017	Expiration Date:
E-mail Address: wade_dittrich@oxy.com		Conditions of Approval:	Attached ☒
Date: 9/5/2017	Phone: (575) 390-2828	see attached directive	

* Attach Additional Sheets If Necessary

1RP-4816

nOY1726358316

pOY1726358626

Appendix B

Depth-to-Groundwater Data



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 628492

Northing (Y): 3582171

Radius: 1610

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

9/5/17 2:38 PM

WATER COLUMN/ AVERAGE
DEPTH TO WATER

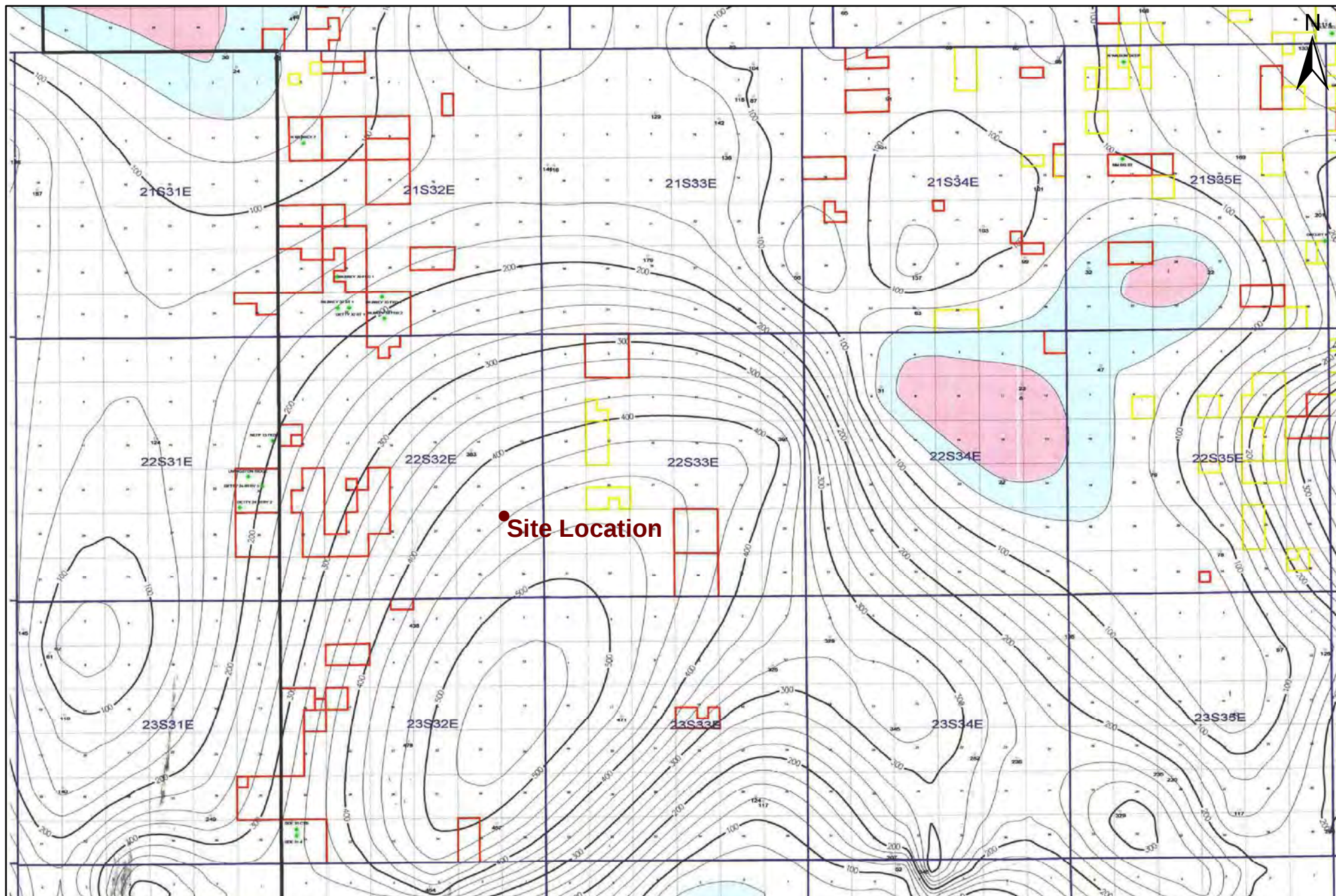


Figure 3
Depth-to-Groundwater Trend Map
OXY USA, Inc.
Covington A Federal 0002
Lea County, New Mexico
NMOCD Reference #: 1RP-4816



Trinity Oilfield Services & Rentals, LLC
P.O. Box 2587
Hobbs, NM 88241

Drawn By: BJA	Checked By: CTR
March 8, 2018	Not To Scale

Appendix C

Photographs

OXY USA, Inc. – Covington A Federal 0002
Unit Letter “D” (NW/NW), Section 25, Township 22S, Range 32E



Covington A Federal 0002 – Release (Looking West)



Covington A Federal 0002 – Release (Looking Southwest)

OXY USA, Inc. – Covington A Federal 0002
Unit Letter “D” (NW/NW), Section 25, Township 22S, Range 32E



Covington A Federal 0002 – Release (Looking South)



Covington A Federal 0002 – Release (Looking Southeast)

OXY USA, Inc. – Covington A Federal 0002
Unit Letter “D” (NW/NW), Section 25, Township 22S, Range 32E



Covington A Federal 0002 – Release (Looking Northeast)



Covington A Federal 0002 – Release (Looking Southeast)

OXY USA, Inc. – Covington A Federal 0002
Unit Letter “D” (NW/NW), Section 25, Township 22S, Range 32E



Covington A Federal 0002 – Release (Looking East)



Covington A Federal 0002 – Primary Pooling Area (Looking East-Southeast)

OXY USA, Inc. – Covington A Federal 0002
Unit Letter “D” (NW/NW), Section 25, Township 22S, Range 32E



Covington A Federal 0002 – Primary Pooling Area (Looking West-Northwest)



Covington A Federal 0002 – Release (Looking South-Southwest)

OXY USA, Inc. – Covington A Federal 0002
Unit Letter “D” (NW/NW), Section 25, Township 22S, Range 32E



Covington A Federal 0002 – Overspray Area (Looking Northwest)



Covington A Federal 0002 – Overspray Area (Looking Northwest)

OXY USA, Inc. – Covington A Federal 0002
Unit Letter “D” (NW/NW), Section 25, Township 22S, Range 32E



Covington A Federal 0002 – Excavation (Looking East)



Covington A Federal 0002 – Excavation (Looking South)

OXY USA, Inc. – Covington A Federal 0002
Unit Letter “D” (NW/NW), Section 25, Township 22S, Range 32E



Covington A Federal 0002 – Excavation (Looking East-Southeast)



Covington A Federal 0002 – Excavation (Looking South-Southwest)

OXY USA, Inc. – Covington A Federal 0002
Unit Letter “D” (NW/NW), Section 25, Township 22S, Range 32E



Covington A Federal 0002 – Excavation (Looking South-Southeast)



Covington A Federal 0002 – Excavation (Looking Southeast)

OXY USA, Inc. – Covington A Federal 0002
Unit Letter “D” (NW/NW), Section 25, Township 22S, Range 32E



Covington A Federal 0002 – Excavation (Looking Southwest)



Covington A Federal 0002 – Excavation (Looking South-Southwest)

OXY USA, Inc. – Covington A Federal 0002
Unit Letter “D” (NW/NW), Section 25, Township 22S, Range 32E



Covington A Federal 0002 – Excavation (Looking Southeast)



Covington A Federal 0002 – Excavation (Looking West)

OXY USA, Inc. – Covington A Federal 0002
Unit Letter “D” (NW/NW), Section 25, Township 22S, Range 32E



Covington A Federal 0002 – Excavation (Looking West)



Covington A Federal 0002 – Excavation (Looking South-Southwest)

OXY USA, Inc. – Covington A Federal 0002
Unit Letter “D” (NW/NW), Section 25, Township 22S, Range 32E



Covington A Federal 0002 – Excavation (Looking Southwest)



Covington A Federal 0002 – Excavation (Looking Southeast)

OXY USA, Inc. – Covington A Federal 0002
Unit Letter “D” (NW/NW), Section 25, Township 22S, Range 32E



Covington A Federal 0002 – Excavation (Looking West-Northwest)



Covington A Federal 0002 – Excavation (Looking West)

OXY USA, Inc. – Covington A Federal 0002
Unit Letter “D” (NW/NW), Section 25, Township 22S, Range 32E



Covington A Federal 0002 – Excavation (Looking South)



Covington A Federal 0002 – Excavation (Looking East-Northeast)

OXY USA, Inc. – Covington A Federal 0002
Unit Letter “D” (NW/NW), Section 25, Township 22S, Range 32E



Covington A Federal 0002 – Excavation (Looking North)



Covington A Federal 0002 – Excavation (Looking Northwest)

OXY USA, Inc. – Covington A Federal 0002
Unit Letter “D” (NW/NW), Section 25, Township 22S, Range 32E



Covington A Federal 0002 – Excavation (Looking Northeast)



Covington A Federal 0002 – Excavation (Looking North-Northeast)

OXY USA, Inc. – Covington A Federal 0002
Unit Letter “D” (NW/NW), Section 25, Township 22S, Range 32E



Covington A Federal 0002 – Excavation (Looking North)



Covington A Federal 0002 – Excavation (Looking North-Northwest)

OXY USA, Inc. – Covington A Federal 0002
Unit Letter “D” (NW/NW), Section 25, Township 22S, Range 32E



Covington A Federal 0002 – Felt & Liner Installation (Looking Northwest)



Covington A Federal 0002 – Felt & Liner Installation (Looking North-Northwest)

OXY USA, Inc. – Covington A Federal 0002
Unit Letter “D” (NW/NW), Section 25, Township 22S, Range 32E



Covington A Federal 0002 – Felt & Liner Installation (Looking Southwest)



Covington A Federal 0002 – Backfilled Excavation (Looking North-Northwest)

OXY USA, Inc. – Covington A Federal 0002
Unit Letter “D” (NW/NW), Section 25, Township 22S, Range 32E



Covington A Federal 0002 – Backfilled Excavation (Looking Northwest)



Covington A Federal 0002 – Backfilled Excavation (Looking North-Northeast)

Appendix D

Laboratory Analytical Reports



Certificate of Analysis Summary 563207

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Covington A Federal 0002



Project Id:

Contact: Ben Arguijo

Project Location: NM

Date Received in Lab: Mon Sep-18-17 09:25 am

Report Date: 28-SEP-17

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	563207-001	563207-002	563207-003	563207-004	563207-005	563207-006
	Field Id:	SP-1 @ 6"	SP-2 @ 6"	SP-2 @ 2.5'	SP-2 @ 3'	SP-3 @ 6"	SP-3 @ 2.5'
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Sep-13-17 12:14	Sep-13-17 12:28	Sep-13-17 12:47	Sep-13-17 13:00	Sep-13-17 13:11	Sep-13-17 13:28
BTEX by EPA 8021B	Extracted:		Sep-25-17 16:50	Sep-25-17 16:50	Sep-25-17 16:50	Sep-27-17 12:00	Sep-25-17 09:00
	Analyzed:		Sep-25-17 23:43	Sep-25-17 23:05	Sep-26-17 07:15	Sep-27-17 16:38	Sep-25-17 16:31
	Units/RL:		mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
	Benzene		<0.00332 0.00332	<0.00341 0.00341	<0.00338 0.00338	<0.00358 0.00358	<0.00200 0.00200
	Toluene		0.0388 0.00332	<0.00341 0.00341	0.00338 0.00338	0.00394 0.00358	<0.00200 0.00200
Ethylbenzene			0.0331 0.00332	<0.00341 0.00341	<0.00338 0.00338	0.00627 0.00358	<0.00200 0.00200
m,p-Xylenes			0.345 0.00664	<0.00683 0.00683	0.0124 0.00676	0.0760 0.00717	0.00735 0.00399
o-Xylene			0.149 0.00332	<0.00341 0.00341	0.00576 0.00338	0.0487 0.00358	0.00577 0.00200
Total Xylenes			0.494 0.00332	<0.00341 0.00341	0.0182 0.00338	0.125 0.00358	0.0131 0.00200
Total BTEX			0.566 0.00332	<0.00341 0.00341	0.0215 0.00338	0.135 0.00358	0.0131 0.00200
Chloride by EPA 300	Extracted:	Sep-25-17 15:35	Sep-25-17 15:35	Sep-25-17 15:35	Sep-25-17 15:35	Sep-25-17 15:35	Sep-25-17 15:35
	Analyzed:	Sep-25-17 18:29	Sep-25-17 22:19	Sep-25-17 22:40	Sep-25-17 22:47	Sep-25-17 22:54	Sep-25-17 23:01
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
	Chloride	8.06 4.96	6110 24.9	492 4.96	290 4.93	5210 25.0	254 4.97
TPH By SW8015 Mod	Extracted:	Sep-21-17 14:00	Sep-21-17 14:00	Sep-21-17 14:00	Sep-21-17 14:00	Sep-21-17 14:00	Sep-21-17 14:00
	Analyzed:	Sep-22-17 05:07	Sep-22-17 05:28	Sep-22-17 06:11	Sep-22-17 08:16	Sep-22-17 08:36	Sep-22-17 08:57
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
	Gasoline Range Hydrocarbons (GRO)	170 74.7	65.6 15.0	<15.0 15.0	<15.0 15.0	16.9 15.0	<15.0 15.0
	Diesel Range Organics (DRO)	7140 74.7	2150 15.0	<15.0 15.0	73.9 15.0	405 15.0	63.2 15.0
Oil Range Hydrocarbons (ORO)		1080 74.7	390 15.0	<15.0 15.0	<15.0 15.0	72.4 15.0	<15.0 15.0
Total TPH		8390 74.7	2610 15.0	<15.0 15.0	73.9 15.0	494 15.0	63.2 15.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Holly Taylor
Project Manager



Certificate of Analysis Summary 563207

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Covington A Federal 0002



Project Id:

Contact: Ben Arguijo

Project Location: NM

Date Received in Lab: Mon Sep-18-17 09:25 am

Report Date: 28-SEP-17

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	563207-007	563207-008	563207-009	563207-010	563207-011	563207-012
	Field Id:	SP-4 @ 6"	SP-4 @ 1.5'	SP-4 @ 2.5'	SP-5 @ 6"	SP-5 @ 1.5'	SP-5 @ 3'
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Sep-13-17 13:40	Sep-13-17 13:48	Sep-13-17 13:54	Sep-13-17 14:07	Sep-13-17 14:15	Sep-13-17 14:28
BTEX by EPA 8021B	Extracted:	Sep-25-17 16:50	Sep-25-17 09:00	Sep-25-17 09:00	Sep-25-17 16:50	Sep-25-17 09:00	Sep-25-17 09:00
	Analyzed:	Sep-26-17 07:34	Sep-25-17 17:08	Sep-25-17 17:27	Sep-25-17 23:24	Sep-25-17 17:46	Sep-25-17 18:05
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00348 0.00348	<0.00202 0.00202	<0.00199 0.00199	<0.00339 0.00339	<0.00201 0.00201	<0.00199 0.00199
Toluene		0.00570 0.00348	<0.00202 0.00202	<0.00199 0.00199	0.00997 0.00339	<0.00201 0.00201	<0.00199 0.00199
Ethylbenzene		0.00749 0.00348	<0.00202 0.00202	<0.00199 0.00199	0.0177 0.00339	<0.00201 0.00201	<0.00199 0.00199
m,p-Xylenes		0.0760 0.00697	<0.00404 0.00404	<0.00398 0.00398	0.146 0.00678	<0.00402 0.00402	0.0167 0.00398
o-Xylene		0.00969 0.00348	<0.00202 0.00202	0.00437 0.00199	0.0763 0.00339	<0.00201 0.00201	0.0125 0.00199
Total Xylenes		0.0857 0.00348	<0.00202 0.00202	0.00437 0.00199	0.222 0.00339	<0.00201 0.00201	0.0292 0.00199
Total BTEX		0.0989 0.00348	<0.00202 0.00202	0.00437 0.00199	0.250 0.00339	<0.00201 0.00201	0.0292 0.00199
Chloride by EPA 300	Extracted:	Sep-25-17 15:35	Sep-25-17 15:35	Sep-25-17 15:35	Sep-25-17 17:20	Sep-25-17 17:20	Sep-25-17 17:20
	Analyzed:	Sep-25-17 23:08	Sep-26-17 10:01	Sep-26-17 10:08	Sep-26-17 11:59	Sep-26-17 12:06	Sep-26-17 12:13
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		5640 24.9	95.3 4.97	102 4.91	624 4.93	1120 4.98	1360 4.92
TPH By SW8015 Mod	Extracted:	Sep-21-17 14:00	Sep-21-17 14:00	Sep-21-17 14:00	Sep-21-17 14:00	Sep-21-17 14:00	Sep-21-17 14:00
	Analyzed:	Sep-22-17 09:16	Sep-22-17 09:36	Sep-22-17 09:57	Sep-22-17 10:17	Sep-22-17 10:37	Sep-22-17 10:57
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<14.9 14.9	16.3 15.0	<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)		379 15.0	<15.0 15.0	17.7 14.9	526 15.0	55.3 15.0	49.9 15.0
Oil Range Hydrocarbons (ORO)		61.0 15.0	<15.0 15.0	<14.9 14.9	91.4 15.0	<15.0 15.0	<15.0 15.0
Total TPH		440 15.0	<15.0 15.0	17.7 14.9	634 15.0	55.3 15.0	49.9 15.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Version: 1.0%

Holly Taylor
Project Manager

Analytical Report 563207
for
Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo
Covington A Federal 0002

28-SEP-17

Collected By: Client



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Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



28-SEP-17

Project Manager: **Ben Arguijo**
Trinity Oilfield Services & Rentals, LLC
PO BOX 2587
Hobbs, NM 88241

Reference: XENCO Report No(s): **563207**
Covington A Federal 0002
Project Address: NM

Ben Arguijo:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 563207. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 563207 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holly Taylor
Project Manager

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Sample Cross Reference 563207



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Covington A Federal 0002

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-1 @ 6"	S	09-13-17 12:14		563207-001
SP-2 @ 6"	S	09-13-17 12:28		563207-002
SP-2 @ 2.5'	S	09-13-17 12:47		563207-003
SP-2 @ 3'	S	09-13-17 13:00		563207-004
SP-3 @ 6"	S	09-13-17 13:11		563207-005
SP-3 @ 2.5'	S	09-13-17 13:28		563207-006
SP-4 @ 6"	S	09-13-17 13:40		563207-007
SP-4 @ 1.5'	S	09-13-17 13:48		563207-008
SP-4 @ 2.5'	S	09-13-17 13:54		563207-009
SP-5 @ 6"	S	09-13-17 14:07		563207-010
SP-5 @ 1.5'	S	09-13-17 14:15		563207-011
SP-5 @ 3'	S	09-13-17 14:28		563207-012



CASE NARRATIVE

Client Name: *Trinity Oilfield Services & Rentals, LLC*

Project Name: *Covington A Federal 0002*

Project ID:
Work Order Number(s): 563207

Report Date: 28-SEP-17
Date Received: 09/18/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3028672 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 563207-008.

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3028678 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3028904 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analytical Results 563207



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-1 @ 6"**
Lab Sample Id: 563207-001

Matrix: Soil
Date Collected: 09.13.17 12.14

Date Received: 09.18.17 09.25

Analytical Method: Chloride by EPA 300
Tech: MNV
Analyst: MNV
Seq Number: 3028831

Prep Method: E300P
% Moisture:
Date Prep: 09.25.17 15.35
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.06	4.96	mg/kg	09.25.17 18.29		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3028437

Prep Method: TX1005P
% Moisture:
Date Prep: 09.21.17 14.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	170	74.7	mg/kg	09.22.17 05.07		5
Diesel Range Organics (DRO)	C10C28DRO	7140	74.7	mg/kg	09.22.17 05.07		5
Oil Range Hydrocarbons (ORO)	PHCG2835	1080	74.7	mg/kg	09.22.17 05.07		5
Total TPH	PHC635	8390	74.7	mg/kg	09.22.17 05.07		5
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	101	%	70-135	09.22.17 05.07		
o-Terphenyl	84-15-1	107	%	70-135	09.22.17 05.07		



Certificate of Analytical Results 563207



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-2 @ 6"**
Lab Sample Id: 563207-002

Matrix: Soil
Date Collected: 09.13.17 12.28

Date Received: 09.18.17 09.25

Analytical Method: Chloride by EPA 300
Tech: MNV
Analyst: MNV
Seq Number: 3028831

Prep Method: E300P
% Moisture:
Basis: Wet Weight
Date Prep: 09.25.17 15.35

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6110	24.9	mg/kg	09.25.17 22.19		5

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3028437

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight
Date Prep: 09.21.17 14.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	65.6	15.0	mg/kg	09.22.17 05.28		1
Diesel Range Organics (DRO)	C10C28DRO	2150	15.0	mg/kg	09.22.17 05.28		1
Oil Range Hydrocarbons (ORO)	PHCG2835	390	15.0	mg/kg	09.22.17 05.28		1
Total TPH	PHC635	2610	15.0	mg/kg	09.22.17 05.28		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	99	%	70-135	09.22.17 05.28		
o-Terphenyl	84-15-1	81	%	70-135	09.22.17 05.28		



Certificate of Analytical Results 563207



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-2 @ 6"**
Lab Sample Id: 563207-002

Matrix: Soil
Date Collected: 09.13.17 12.28

Date Received: 09.18.17 09.25

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.25.17 16.50

Basis: Wet Weight

Seq Number: 3028678

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00332	0.00332	mg/kg	09.25.17 23.43	U	1
Toluene	108-88-3	0.0388	0.00332	mg/kg	09.25.17 23.43		1
Ethylbenzene	100-41-4	0.0331	0.00332	mg/kg	09.25.17 23.43		1
m,p-Xylenes	179601-23-1	0.345	0.00664	mg/kg	09.25.17 23.43		1
o-Xylene	95-47-6	0.149	0.00332	mg/kg	09.25.17 23.43		1
Total Xylenes	1330-20-7	0.494	0.00332	mg/kg	09.25.17 23.43		1
Total BTEX		0.566	0.00332	mg/kg	09.25.17 23.43		1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96		%	80-120	09.25.17 23.43	
4-Bromofluorobenzene	460-00-4	87		%	80-120	09.25.17 23.43	



Certificate of Analytical Results 563207



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: SP-2 @ 2.5'

Matrix: Soil

Date Received: 09.18.17 09.25

Lab Sample Id: 563207-003

Date Collected: 09.13.17 12.47

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.25.17 15.35

Basis: Wet Weight

Seq Number: 3028831

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	492	4.96	mg/kg	09.25.17 22.40		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.21.17 14.00

Basis: Wet Weight

Seq Number: 3028437

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.22.17 06.11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.22.17 06.11	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.22.17 06.11	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.22.17 06.11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	102	%	70-135	09.22.17 06.11		
o-Terphenyl	84-15-1	97	%	70-135	09.22.17 06.11		



Certificate of Analytical Results 563207



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-2 @ 2.5'**

Matrix: Soil

Date Received: 09.18.17 09.25

Lab Sample Id: 563207-003

Date Collected: 09.13.17 12.47

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.25.17 16.50

Basis: Wet Weight

Seq Number: 3028678

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00341	0.00341	mg/kg	09.25.17 23.05	U	1
Toluene	108-88-3	<0.00341	0.00341	mg/kg	09.25.17 23.05	U	1
Ethylbenzene	100-41-4	<0.00341	0.00341	mg/kg	09.25.17 23.05	U	1
m,p-Xylenes	179601-23-1	<0.00683	0.00683	mg/kg	09.25.17 23.05	U	1
o-Xylene	95-47-6	<0.00341	0.00341	mg/kg	09.25.17 23.05	U	1
Total Xylenes	1330-20-7	<0.00341	0.00341	mg/kg	09.25.17 23.05	U	1
Total BTEX		<0.00341	0.00341	mg/kg	09.25.17 23.05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	82	%	80-120	09.25.17 23.05		
1,4-Difluorobenzene	540-36-3	94	%	80-120	09.25.17 23.05		



Certificate of Analytical Results 563207



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-2 @ 3'**
Lab Sample Id: 563207-004

Matrix: Soil
Date Collected: 09.13.17 13.00

Date Received: 09.18.17 09.25

Analytical Method: Chloride by EPA 300
Tech: MNV
Analyst: MNV
Seq Number: 3028831

Prep Method: E300P
% Moisture:
Basis: Wet Weight
Date Prep: 09.25.17 15.35

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	290	4.93	mg/kg	09.25.17 22.47		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3028437

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight
Date Prep: 09.21.17 14.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.22.17 08.16	U	1
Diesel Range Organics (DRO)	C10C28DRO	73.9	15.0	mg/kg	09.22.17 08.16		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.22.17 08.16	U	1
Total TPH	PHC635	73.9	15.0	mg/kg	09.22.17 08.16		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	103	%	70-135	09.22.17 08.16		
o-Terphenyl	84-15-1	99	%	70-135	09.22.17 08.16		



Certificate of Analytical Results 563207



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-2 @ 3'**
Lab Sample Id: 563207-004

Matrix: Soil
Date Collected: 09.13.17 13.00

Date Received: 09.18.17 09.25

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.25.17 16.50

Basis: Wet Weight

Seq Number: 3028678

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00338	0.00338	mg/kg	09.26.17 07.15	U	1
Toluene	108-88-3	0.00338	0.00338	mg/kg	09.26.17 07.15		1
Ethylbenzene	100-41-4	<0.00338	0.00338	mg/kg	09.26.17 07.15	U	1
m,p-Xylenes	179601-23-1	0.0124	0.00676	mg/kg	09.26.17 07.15		1
o-Xylene	95-47-6	0.00576	0.00338	mg/kg	09.26.17 07.15		1
Total Xylenes	1330-20-7	0.0182	0.00338	mg/kg	09.26.17 07.15		1
Total BTEX		0.0215	0.00338	mg/kg	09.26.17 07.15		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	84	%	80-120	09.26.17 07.15		
1,4-Difluorobenzene	540-36-3	90	%	80-120	09.26.17 07.15		



Certificate of Analytical Results 563207



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-3 @ 6"**
Lab Sample Id: 563207-005

Matrix: Soil
Date Collected: 09.13.17 13.11

Date Received: 09.18.17 09.25

Analytical Method: Chloride by EPA 300
Tech: MNV
Analyst: MNV
Seq Number: 3028831

Prep Method: E300P
% Moisture:
Basis: Wet Weight
Date Prep: 09.25.17 15.35

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5210	25.0	mg/kg	09.25.17 22.54		5

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3028437

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight
Date Prep: 09.21.17 14.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	16.9	15.0	mg/kg	09.22.17 08.36		1
Diesel Range Organics (DRO)	C10C28DRO	405	15.0	mg/kg	09.22.17 08.36		1
Oil Range Hydrocarbons (ORO)	PHCG2835	72.4	15.0	mg/kg	09.22.17 08.36		1
Total TPH	PHC635	494	15.0	mg/kg	09.22.17 08.36		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	101	%	70-135	09.22.17 08.36		
o-Terphenyl	84-15-1	98	%	70-135	09.22.17 08.36		



Certificate of Analytical Results 563207



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-3 @ 6"**
Lab Sample Id: 563207-005

Matrix: Soil
Date Collected: 09.13.17 13.11

Date Received: 09.18.17 09.25

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.27.17 12.00

Basis: Wet Weight

Seq Number: 3028904

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00358	0.00358	mg/kg	09.27.17 16.38	U	1
Toluene	108-88-3	0.00394	0.00358	mg/kg	09.27.17 16.38		1
Ethylbenzene	100-41-4	0.00627	0.00358	mg/kg	09.27.17 16.38		1
m,p-Xylenes	179601-23-1	0.0760	0.00717	mg/kg	09.27.17 16.38		1
o-Xylene	95-47-6	0.0487	0.00358	mg/kg	09.27.17 16.38		1
Total Xylenes	1330-20-7	0.125	0.00358	mg/kg	09.27.17 16.38		1
Total BTEX		0.135	0.00358	mg/kg	09.27.17 16.38		1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	93		%	80-120	09.27.17 16.38	
4-Bromofluorobenzene	460-00-4	87		%	80-120	09.27.17 16.38	



Certificate of Analytical Results 563207



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-3 @ 2.5'**

Matrix: Soil

Date Received: 09.18.17 09.25

Lab Sample Id: 563207-006

Date Collected: 09.13.17 13.28

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.25.17 15.35

Basis: Wet Weight

Seq Number: 3028831

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	254	4.97	mg/kg	09.25.17 23.01		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.21.17 14.00

Basis: Wet Weight

Seq Number: 3028437

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.22.17 08.57	U	1
Diesel Range Organics (DRO)	C10C28DRO	63.2	15.0	mg/kg	09.22.17 08.57		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.22.17 08.57	U	1
Total TPH	PHC635	63.2	15.0	mg/kg	09.22.17 08.57		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	09.22.17 08.57	
o-Terphenyl	84-15-1	97	%	70-135	09.22.17 08.57	



Certificate of Analytical Results 563207



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-3 @ 2.5'**

Matrix: Soil

Date Received: 09.18.17 09.25

Lab Sample Id: 563207-006

Date Collected: 09.13.17 13.28

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.25.17 09.00

Basis: Wet Weight

Seq Number: 3028672

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.25.17 16.31	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.25.17 16.31	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.25.17 16.31	U	1
m,p-Xylenes	179601-23-1	0.00735	0.00399	mg/kg	09.25.17 16.31		1
o-Xylene	95-47-6	0.00577	0.00200	mg/kg	09.25.17 16.31		1
Total Xylenes	1330-20-7	0.0131	0.00200	mg/kg	09.25.17 16.31		1
Total BTEX		0.0131	0.00200	mg/kg	09.25.17 16.31		1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	87		%	80-120	09.25.17 16.31	
1,4-Difluorobenzene	540-36-3	93		%	80-120	09.25.17 16.31	



Certificate of Analytical Results 563207



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-4 @ 6"**
Lab Sample Id: 563207-007

Matrix: Soil
Date Collected: 09.13.17 13.40

Date Received: 09.18.17 09.25

Analytical Method: Chloride by EPA 300
Tech: MNV
Analyst: MNV
Seq Number: 3028831

Prep Method: E300P
% Moisture:
Basis: Wet Weight
Date Prep: 09.25.17 15.35

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5640	24.9	mg/kg	09.25.17 23.08		5

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3028437

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight
Date Prep: 09.21.17 14.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.22.17 09.16	U	1
Diesel Range Organics (DRO)	C10C28DRO	379	15.0	mg/kg	09.22.17 09.16		1
Oil Range Hydrocarbons (ORO)	PHCG2835	61.0	15.0	mg/kg	09.22.17 09.16		1
Total TPH	PHC635	440	15.0	mg/kg	09.22.17 09.16		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	104	%	70-135	09.22.17 09.16		
o-Terphenyl	84-15-1	101	%	70-135	09.22.17 09.16		



Certificate of Analytical Results 563207



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-4 @ 6"**

Matrix: Soil

Date Received: 09.18.17 09.25

Lab Sample Id: 563207-007

Date Collected: 09.13.17 13.40

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.25.17 16.50

Basis: Wet Weight

Seq Number: 3028678

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00348	0.00348	mg/kg	09.26.17 07.34	U	1
Toluene	108-88-3	0.00570	0.00348	mg/kg	09.26.17 07.34		1
Ethylbenzene	100-41-4	0.00749	0.00348	mg/kg	09.26.17 07.34		1
m,p-Xylenes	179601-23-1	0.0760	0.00697	mg/kg	09.26.17 07.34		1
o-Xylene	95-47-6	0.00969	0.00348	mg/kg	09.26.17 07.34		1
Total Xylenes	1330-20-7	0.0857	0.00348	mg/kg	09.26.17 07.34		1
Total BTEX		0.0989	0.00348	mg/kg	09.26.17 07.34		1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	87		%	80-120	09.26.17 07.34	
1,4-Difluorobenzene	540-36-3	88		%	80-120	09.26.17 07.34	



Certificate of Analytical Results 563207



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-4 @ 1.5'**

Matrix: Soil

Date Received: 09.18.17 09.25

Lab Sample Id: 563207-008

Date Collected: 09.13.17 13.48

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.25.17 15.35

Basis: Wet Weight

Seq Number: 3028831

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	95.3	4.97	mg/kg	09.26.17 10.01		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.21.17 14.00

Basis: Wet Weight

Seq Number: 3028437

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.22.17 09.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.22.17 09.36	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.22.17 09.36	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.22.17 09.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	09.22.17 09.36	
o-Terphenyl	84-15-1	99	%	70-135	09.22.17 09.36	



Certificate of Analytical Results 563207



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-4 @ 1.5'**

Matrix: Soil

Date Received: 09.18.17 09.25

Lab Sample Id: 563207-008

Date Collected: 09.13.17 13.48

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.25.17 09.00

Basis: Wet Weight

Seq Number: 3028672

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.25.17 17.08	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.25.17 17.08	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.25.17 17.08	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	09.25.17 17.08	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.25.17 17.08	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.25.17 17.08	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.25.17 17.08	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	109	%	80-120	09.25.17 17.08		
4-Bromofluorobenzene	460-00-4	64	%	80-120	09.25.17 17.08	**	



Certificate of Analytical Results 563207



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-4 @ 2.5'**

Matrix: Soil

Date Received: 09.18.17 09.25

Lab Sample Id: 563207-009

Date Collected: 09.13.17 13.54

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.25.17 15.35

Basis: Wet Weight

Seq Number: 3028831

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	102	4.91	mg/kg	09.26.17 10.08		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.21.17 14.00

Basis: Wet Weight

Seq Number: 3028437

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	09.22.17 09.57	U	1
Diesel Range Organics (DRO)	C10C28DRO	17.7	14.9	mg/kg	09.22.17 09.57		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	09.22.17 09.57	U	1
Total TPH	PHC635	17.7	14.9	mg/kg	09.22.17 09.57		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	09.22.17 09.57	
o-Terphenyl	84-15-1	99	%	70-135	09.22.17 09.57	



Certificate of Analytical Results 563207



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-4 @ 2.5'**

Matrix: Soil

Date Received: 09.18.17 09.25

Lab Sample Id: 563207-009

Date Collected: 09.13.17 13.54

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.25.17 09.00

Basis: Wet Weight

Seq Number: 3028672

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.25.17 17.27	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.25.17 17.27	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.25.17 17.27	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.25.17 17.27	U	1
o-Xylene	95-47-6	0.00437	0.00199	mg/kg	09.25.17 17.27		1
Total Xylenes	1330-20-7	0.00437	0.00199	mg/kg	09.25.17 17.27		1
Total BTEX		0.00437	0.00199	mg/kg	09.25.17 17.27		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	92	%	80-120	09.25.17 17.27		
4-Bromofluorobenzene	460-00-4	86	%	80-120	09.25.17 17.27		



Certificate of Analytical Results 563207



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-5 @ 6"**
Lab Sample Id: 563207-010

Matrix: Soil
Date Collected: 09.13.17 14.07

Date Received: 09.18.17 09.25

Analytical Method: Chloride by EPA 300
Tech: MNV
Analyst: MNV
Seq Number: 3028705

Prep Method: E300P
% Moisture:
Date Prep: 09.25.17 17.20
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	624	4.93	mg/kg	09.26.17 11.59		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3028437

Prep Method: TX1005P
% Moisture:
Date Prep: 09.21.17 14.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	16.3	15.0	mg/kg	09.22.17 10.17		1
Diesel Range Organics (DRO)	C10C28DRO	526	15.0	mg/kg	09.22.17 10.17		1
Oil Range Hydrocarbons (ORO)	PHCG2835	91.4	15.0	mg/kg	09.22.17 10.17		1
Total TPH	PHC635	634	15.0	mg/kg	09.22.17 10.17		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	101	%	70-135	09.22.17 10.17		
o-Terphenyl	84-15-1	97	%	70-135	09.22.17 10.17		



Certificate of Analytical Results 563207



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-5 @ 6"**
Lab Sample Id: 563207-010

Matrix: Soil
Date Collected: 09.13.17 14.07

Date Received: 09.18.17 09.25

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.25.17 16.50

Basis: Wet Weight

Seq Number: 3028678

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00339	0.00339	mg/kg	09.25.17 23.24	U	1
Toluene	108-88-3	0.00997	0.00339	mg/kg	09.25.17 23.24		1
Ethylbenzene	100-41-4	0.0177	0.00339	mg/kg	09.25.17 23.24		1
m,p-Xylenes	179601-23-1	0.146	0.00678	mg/kg	09.25.17 23.24		1
o-Xylene	95-47-6	0.0763	0.00339	mg/kg	09.25.17 23.24		1
Total Xylenes	1330-20-7	0.222	0.00339	mg/kg	09.25.17 23.24		1
Total BTEX		0.250	0.00339	mg/kg	09.25.17 23.24		1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94		%	80-120	09.25.17 23.24	
1,4-Difluorobenzene	540-36-3	86		%	80-120	09.25.17 23.24	



Certificate of Analytical Results 563207



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: SP-5 @ 1.5'

Matrix: Soil

Date Received: 09.18.17 09.25

Lab Sample Id: 563207-011

Date Collected: 09.13.17 14.15

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.25.17 17.20

Basis: Wet Weight

Seq Number: 3028705

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1120	4.98	mg/kg	09.26.17 12.06		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.21.17 14.00

Basis: Wet Weight

Seq Number: 3028437

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.22.17 10.37	U	1
Diesel Range Organics (DRO)	C10C28DRO	55.3	15.0	mg/kg	09.22.17 10.37		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.22.17 10.37	U	1
Total TPH	PHC635	55.3	15.0	mg/kg	09.22.17 10.37		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	09.22.17 10.37	
o-Terphenyl	84-15-1	100	%	70-135	09.22.17 10.37	



Certificate of Analytical Results 563207



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: SP-5 @ 1.5'

Matrix: Soil

Date Received: 09.18.17 09.25

Lab Sample Id: 563207-011

Date Collected: 09.13.17 14.15

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.25.17 09.00

Basis: Wet Weight

Seq Number: 3028672

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.25.17 17.46	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.25.17 17.46	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.25.17 17.46	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.25.17 17.46	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.25.17 17.46	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.25.17 17.46	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.25.17 17.46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	85	%	80-120	09.25.17 17.46		
1,4-Difluorobenzene	540-36-3	94	%	80-120	09.25.17 17.46		



Certificate of Analytical Results 563207



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-5 @ 3'**
Lab Sample Id: 563207-012

Matrix: Soil
Date Collected: 09.13.17 14.28

Date Received: 09.18.17 09.25

Analytical Method: Chloride by EPA 300
Tech: MNV
Analyst: MNV
Seq Number: 3028705

Prep Method: E300P
% Moisture:
Basis: Wet Weight
Date Prep: 09.25.17 17.20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1360	4.92	mg/kg	09.26.17 12.13		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3028437

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight
Date Prep: 09.21.17 14.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.22.17 10.57	U	1
Diesel Range Organics (DRO)	C10C28DRO	49.9	15.0	mg/kg	09.22.17 10.57		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.22.17 10.57	U	1
Total TPH	PHC635	49.9	15.0	mg/kg	09.22.17 10.57		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	101	%	70-135	09.22.17 10.57		
o-Terphenyl	84-15-1	97	%	70-135	09.22.17 10.57		



Certificate of Analytical Results 563207



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-5 @ 3'**
Lab Sample Id: 563207-012

Matrix: Soil
Date Collected: 09.13.17 14.28

Date Received: 09.18.17 09.25

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.25.17 09.00

Basis: Wet Weight

Seq Number: 3028672

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.25.17 18.05	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.25.17 18.05	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.25.17 18.05	U	1
m,p-Xylenes	179601-23-1	0.0167	0.00398	mg/kg	09.25.17 18.05		1
o-Xylene	95-47-6	0.0125	0.00199	mg/kg	09.25.17 18.05		1
Total Xylenes	1330-20-7	0.0292	0.00199	mg/kg	09.25.17 18.05		1
Total BTEX		0.0292	0.00199	mg/kg	09.25.17 18.05		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	84	%	80-120	09.25.17 18.05		
1,4-Difluorobenzene	540-36-3	90	%	80-120	09.25.17 18.05		

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(602) 437-0330	

Trinity Oilfield Services & Rentals, LLC
Covington A Federal 0002**Analytical Method: Chloride by EPA 300**

Seq Number: 3028831

MB Sample Id: 731502-1-BLK

Matrix: Solid

LCS Sample Id: 731502-1-BKS

Prep Method: E300P

Date Prep: 09.25.17

LCSD Sample Id: 731502-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	267	107	267	107	90-110	0	20	mg/kg	09.25.17 16:37	

Analytical Method: Chloride by EPA 300

Seq Number: 3028705

MB Sample Id: 731508-1-BLK

Matrix: Solid

LCS Sample Id: 731508-1-BKS

Prep Method: E300P

Date Prep: 09.25.17

LCSD Sample Id: 731508-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	273	109	274	110	90-110	0	20	mg/kg	09.26.17 10:35	

Analytical Method: Chloride by EPA 300

Seq Number: 3028831

Parent Sample Id: 563207-001

Matrix: Soil

MS Sample Id: 563207-001 S

Prep Method: E300P

Date Prep: 09.25.17

MSD Sample Id: 563207-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	8.06	248	271	106	273	107	90-110	1	20	mg/kg	09.25.17 21:58	

Analytical Method: Chloride by EPA 300

Seq Number: 3028831

Parent Sample Id: 563221-004

Matrix: Soil

MS Sample Id: 563221-004 S

Prep Method: E300P

Date Prep: 09.25.17

MSD Sample Id: 563221-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	65.0	249	326	105	325	104	90-110	0	20	mg/kg	09.25.17 16:58	

Analytical Method: Chloride by EPA 300

Seq Number: 3028705

Parent Sample Id: 563445-002

Matrix: Soil

MS Sample Id: 563445-002 S

Prep Method: E300P

Date Prep: 09.25.17

MSD Sample Id: 563445-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1310	246	1520	85	1520	85	90-110	0	20	mg/kg	09.26.17 12:41	X

Analytical Method: Chloride by EPA 300

Seq Number: 3028705

Parent Sample Id: 563777-001

Matrix: Soil

MS Sample Id: 563777-001 S

Prep Method: E300P

Date Prep: 09.25.17

MSD Sample Id: 563777-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1670	249	1910	96	1950	112	90-110	2	20	mg/kg	09.26.17 14:19	X



QC Summary 563207

Trinity Oilfield Services & Rentals, LLC Covington A Federal 0002

Analytical Method: TPH By SW8015 Mod

Seq Number: 3028437

MB Sample Id: 731370-1-BLK

Matrix: Solid

LCS Sample Id: 731370-1-BKS

Prep Method: TX1005P

Date Prep: 09.21.17

LCSD Sample Id: 731370-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	1040	104	1070	107	70-135	3	35	mg/kg	09.22.17 04:24	
Diesel Range Organics (DRO)	<15.0	1000	1110	111	1130	113	70-135	2	35	mg/kg	09.22.17 04:24	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane	112		105		104		70-135	%	09.22.17 04:24			
o-Terphenyl	107		100		106		70-135	%	09.22.17 04:24			

Analytical Method: TPH By SW8015 Mod

Seq Number: 3028437

Parent Sample Id: 563207-003

Matrix: Soil

MS Sample Id: 563207-003 S

Prep Method: TX1005P

Date Prep: 09.21.17

MSD Sample Id: 563207-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	997	1070	107	1030	103	70-135	4	35	mg/kg	09.22.17 07:36	
Diesel Range Organics (DRO)	<15.0	997	1110	111	1120	112	70-135	1	35	mg/kg	09.22.17 07:36	
Surrogate				MS %Rec	MS Flag	MSD %Rec	MSD Flag		Limits	Units	Analysis Date	
1-Chlorooctane				104		103			70-135	%	09.22.17 07:36	
o-Terphenyl				102		103			70-135	%	09.22.17 07:36	

Analytical Method: BTEX by EPA 8021B

Seq Number: 3028672

MB Sample Id: 731515-1-BLK

Matrix: Solid

LCS Sample Id: 731515-1-BKS

Prep Method: SW5030B

Date Prep: 09.25.17

LCSD Sample Id: 731515-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.108	109	0.109	109	70-130	1	35	mg/kg	09.25.17 10:09	
Toluene	<0.00199	0.0994	0.102	103	0.103	103	70-130	1	35	mg/kg	09.25.17 10:09	
Ethylbenzene	<0.00199	0.0994	0.102	103	0.103	103	71-129	1	35	mg/kg	09.25.17 10:09	
m,p-Xylenes	<0.00398	0.199	0.199	100	0.201	101	70-135	1	35	mg/kg	09.25.17 10:09	
o-Xylene	<0.00199	0.0994	0.0956	96	0.0967	97	71-133	1	35	mg/kg	09.25.17 10:09	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1,4-Difluorobenzene	94		98		98		80-120	%	09.25.17 10:09			
4-Bromofluorobenzene	80		91		92		80-120	%	09.25.17 10:09			

Trinity Oilfield Services & Rentals, LLC
Covington A Federal 0002

Analytical Method: BTEX by EPA 8021B

Seq Number: 3028678

MB Sample Id: 731517-1-BLK

Matrix: Solid

LCS Sample Id: 731517-1-BKS

Prep Method: SW5030B

Date Prep: 09.25.17

LCSD Sample Id: 731517-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.110	110	0.107	107	70-130	3	35	mg/kg	09.25.17 19:40	
Toluene	<0.00200	0.100	0.103	103	0.100	100	70-130	3	35	mg/kg	09.25.17 19:40	
Ethylbenzene	<0.00200	0.100	0.103	103	0.0998	100	71-129	3	35	mg/kg	09.25.17 19:40	
m,p-Xylenes	<0.00401	0.200	0.200	100	0.194	97	70-135	3	35	mg/kg	09.25.17 19:40	
o-Xylene	<0.00200	0.100	0.0967	97	0.0947	95	71-133	2	35	mg/kg	09.25.17 19:40	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		97		97		80-120	%	09.25.17 19:40
4-Bromofluorobenzene	82		90		91		80-120	%	09.25.17 19:40

Analytical Method: BTEX by EPA 8021B

Seq Number: 3028904

MB Sample Id: 731713-1-BLK

Matrix: Solid

LCS Sample Id: 731713-1-BKS

Prep Method: SW5030B

Date Prep: 09.27.17

LCSD Sample Id: 731713-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.114	114	0.107	106	70-130	6	35	mg/kg	09.27.17 14:26	
Toluene	<0.00200	0.0998	0.106	106	0.101	100	70-130	5	35	mg/kg	09.27.17 14:26	
Ethylbenzene	<0.00200	0.0998	0.104	104	0.100	99	71-129	4	35	mg/kg	09.27.17 14:26	
m,p-Xylenes	<0.00399	0.200	0.201	101	0.195	97	70-135	3	35	mg/kg	09.27.17 14:26	
o-Xylene	<0.00200	0.0998	0.0991	99	0.0935	93	71-133	6	35	mg/kg	09.27.17 14:26	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		102		98		80-120	%	09.27.17 14:26
4-Bromofluorobenzene	81		94		89		80-120	%	09.27.17 14:26

Analytical Method: BTEX by EPA 8021B

Seq Number: 3028672

Parent Sample Id: 563632-001

Matrix: Soil

MS Sample Id: 563632-001 S

Prep Method: SW5030B

Date Prep: 09.25.17

MSD Sample Id: 563632-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	0.00219	0.101	0.0693	66	0.0777	75	70-130	11	35	mg/kg	09.25.17 10:47	X
Toluene	0.00958	0.101	0.0566	47	0.0645	54	70-130	13	35	mg/kg	09.25.17 10:47	X
Ethylbenzene	<0.00201	0.101	0.0414	41	0.0423	42	71-129	2	35	mg/kg	09.25.17 10:47	X
m,p-Xylenes	0.00431	0.201	0.0788	37	0.0798	37	70-135	1	35	mg/kg	09.25.17 10:47	X
o-Xylene	<0.00201	0.101	0.0420	42	0.0416	41	71-133	1	35	mg/kg	09.25.17 10:47	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		111		80-120	%	09.25.17 10:47
4-Bromofluorobenzene	83		103		80-120	%	09.25.17 10:47

Trinity Oilfield Services & Rentals, LLC
Covington A Federal 0002

Analytical Method: BTEX by EPA 8021B

Seq Number: 3028678

Parent Sample Id: 563676-001

Matrix: Soil

MS Sample Id: 563676-001 S

Prep Method: SW5030B

Date Prep: 09.25.17

MSD Sample Id: 563676-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0872	86	0.0798	80	70-130	9	35	mg/kg	09.25.17 20:18	
Toluene	0.00609	0.101	0.0801	73	0.0763	70	70-130	5	35	mg/kg	09.25.17 20:18	
Ethylbenzene	<0.00202	0.101	0.0656	65	0.0668	67	71-129	2	35	mg/kg	09.25.17 20:18	X
m,p-Xylenes	<0.00404	0.202	0.125	62	0.130	65	70-135	4	35	mg/kg	09.25.17 20:18	X
o-Xylene	<0.00202	0.101	0.0627	62	0.0643	64	71-133	3	35	mg/kg	09.25.17 20:18	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		94		80-120	%	09.25.17 20:18
4-Bromofluorobenzene	87		88		80-120	%	09.25.17 20:18

Analytical Method: BTEX by EPA 8021B

Seq Number: 3028904

Parent Sample Id: 563780-003

Matrix: Soil

MS Sample Id: 563780-003 S

Prep Method: SW5030B

Date Prep: 09.27.17

MSD Sample Id: 563780-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.0906	90	0.0913	91	70-130	1	35	mg/kg	09.27.17 15:04	
Toluene	<0.00201	0.101	0.0854	85	0.0867	87	70-130	2	35	mg/kg	09.27.17 15:04	
Ethylbenzene	<0.00201	0.101	0.0837	83	0.0852	85	71-129	2	35	mg/kg	09.27.17 15:04	
m,p-Xylenes	<0.00402	0.201	0.163	81	0.166	83	70-135	2	35	mg/kg	09.27.17 15:04	
o-Xylene	<0.00201	0.101	0.0791	78	0.0810	81	71-133	2	35	mg/kg	09.27.17 15:04	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		98		80-120	%	09.27.17 15:04
4-Bromofluorobenzene	92		93		80-120	%	09.27.17 15:04



CHAIN OF CUSTODY RECORD

Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800

Page 1 of 2

LAB W.O #:

Field billable Hrs :

563207

* Container Type Codes

VA Vial Amber ES Encore Sampler
VC Vial Clear TS TerraCore Sampler
VP Vial Pre-preserved AC Air Canister
GA Glass Amber TB Tedlar Bag
GC Glass Clear ZB Zip Lock Bag
PA Plastic Amber PC Plastic Clear
Other _____

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal
40ml, 125 ml, 250 ml, 500 ml, 1L, Other

** Preservative Type Codes

A. None E. HCL I. Ice
B. HNO₃ F. MeOH J. MCAA C.
H₂SO₄ G. Na₂S₂O₃ K. ZnAc&NaOH
D. NaOH H. NaHSO₄ L. Asbc Acid&NaOH
O. _____

^ Matrix Type Codes

GW Ground Water S Soil/Sediment/Solid
WW Waste Water W Wipe
DW Drinking Water A Air
SW Surface Water O Oil
OW Ocean/Sea Water T Tissue
PL Product-Liquid U Urine
PS Product-Solid B Blood
SL Sludge
Other _____

REMARKS

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

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Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

Company:	Trinity Oilfield Services & Rentals, LLC	Phone:	(575)390-7208
Address:	P.O. Box 2587	Fax:	
City:	Hobbs	State:	NM
		Zip:	88241
PM/Attn:	Ben J. Arguijo	Email:	wade.dittrich@oxy.com & ben@trinityoilfieldservices.com
Project ID:	Covington A Federal 0002	PO#:	
Invoice To:	Oxy - Wade Dittrich (575)390-2828	Quote #:	

Sampler Name:	Duskie Bennett	Circle One Event:	Daily Weekly Monthly Quarterly
		Semi-Annual Annual N/A	

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered	Integrity OK (Y/N)	Total # of containers	Example Volatiles by 8260	TPH	BTEX	Chloride	Hold Sample (CALL) Run PAH on Highest TPH Only
								# Cont	Lab Only:			
1	SP-1 @ 6"	9/13/17	1214	S			1	X				
2	SP-2 @ 6" 6" DB	9/13/17	1228	S			1	X				
3	SP-2 @ 2.5'	9/13/17	1247	S			1	X				
4	SP-2 @ 3'	9/13/17	1300	S			1	X				
5	SP-3 @ 6"	9/13/17	1311	S			1	X				
6	SP-3 @ 2.5'	9/13/17	1328	S			1	X				
7	SP-4 @ 6"	9/13/17	1340	S			1	X				
8	SP-4 @ 1.5'	9/13/17	1348	S			1	X				
9	SP-4 @ 2.5'	9/13/17	1354	S			1	X				
0	SP-5 @ 6"	9/13/17	1407	S			1	X				

Reg. Program / Clean-up Std	STATE for Certs & Regs	QA/QC Level & Certification	EDDs	COC & Labels	Coolers Temp °C
CTLs TRRP DW NPDES LPST DryCln Other:	FL TX GA NC SC NJ PA OK LA AL NM Other:	1 2 3 4 CLP AFCEE QAPP NELAC DoD-ELAP Other:	ADAPT SEDD ERPIMS XLS Other:	Match Incomplete Absent Unclear	10.4 2 3

Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
Duskie Bennett	Trinity	9/18/17	0918	Mail Services E.G		9-18	9:25
				Thanneth Xenco		9-19-17	10:30

B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330
FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previous shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full.

Revision Date:

Temp: 3.4
CF: (0-6: -0.2°C)
(6-23: +0.2°C)

Corrected Temp: 3.2

IR ID: R-8



XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In



Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 09/18/2017 09:25:00 AM

Work Order #: 563207

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	-.4
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by: Jessica Kramer
Jessica Kramer

Date: 09/19/2017

Checklist reviewed by: Holly Taylor
Holly Taylor

Date: 09/19/2017



Certificate of Analysis Summary 563850

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Covington A Federal 0002



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Mon Sep-25-17 03:19 pm

Report Date: 03-OCT-17

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	563850-001	563850-002	563850-003	563850-004	563850-005	563850-006
	Field Id:	SP-2 @ 4.5'	SP-2 @ 6'	SP-2 @ 7'	SP-2 @ 8.5'	SP-3 @ 4'	SP-3 @ 6'
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Sep-21-17 10:00	Sep-21-17 10:20	Sep-21-17 10:41	Sep-21-17 10:55	Sep-21-17 11:28	Sep-21-17 11:55
BTEX by EPA 8021B	Extracted:	Sep-29-17 15:00	Oct-02-17 09:00	Sep-29-17 15:00	Sep-29-17 15:00	Sep-29-17 15:00	Sep-29-17 15:00
	Analyzed:	Sep-29-17 17:17	Oct-02-17 11:54	Sep-29-17 17:36	Sep-29-17 17:54	Sep-29-17 18:13	Sep-29-17 18:32
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
Toluene		<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
Ethylbenzene		<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
m,p-Xylenes		<0.00402 0.00402	<0.00404 0.00404	<0.00401 0.00401	<0.00398 0.00398	<0.00399 0.00399	<0.00398 0.00398
o-Xylene		<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
Total Xylenes		<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
Total BTEX		<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
Chloride by EPA 300	Extracted:	Sep-30-17 12:00	Sep-30-17 12:00	Sep-30-17 12:00	Sep-30-17 12:00	Sep-30-17 12:00	Sep-30-17 12:00
	Analyzed:	Sep-30-17 13:17	Sep-30-17 13:39	Sep-30-17 13:46	Sep-30-17 13:53	Sep-30-17 14:00	Sep-30-17 14:22
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		56.6 4.97	313 4.99	868 4.97	58.7 4.98	450 4.98	361 4.92
TPH By SW8015 Mod	Extracted:	Sep-28-17 14:00	Sep-28-17 14:00	Sep-28-17 14:00	Sep-28-17 14:00	Sep-28-17 14:00	Sep-28-17 14:00
	Analyzed:	Sep-29-17 00:54	Sep-29-17 01:56	Sep-29-17 02:17	Sep-29-17 02:37	Sep-29-17 02:58	Sep-29-17 03:19
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0
Total TPH		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0

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Holly Taylor
Project Manager



Certificate of Analysis Summary 563850

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Covington A Federal 0002



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Mon Sep-25-17 03:19 pm

Report Date: 03-OCT-17

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	563850-007	563850-008	563850-009	563850-010	563850-011	563850-012
	Field Id:	SP-3 @ 7'	SP-4 @ 4.5'	SP-4 @ 8'	SP-4 @ 9.5'	SP-5 @ 4'	SP-5 @ 9.5'
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Sep-21-17 12:08	Sep-21-17 12:30	Sep-21-17 12:54	Sep-21-17 13:05	Sep-21-17 13:29	Sep-21-17 13:49
BTEX by EPA 8021B	Extracted:	Sep-29-17 15:00	Sep-29-17 15:00	Sep-29-17 15:00	Sep-29-17 15:00	Sep-29-17 15:00	Sep-29-17 15:00
	Analyzed:	Sep-29-17 18:51	Sep-29-17 19:10	Sep-29-17 19:28	Sep-29-17 19:47	Sep-29-17 20:06	Sep-29-17 21:03
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
m,p-Xylenes		<0.00399 0.00399	<0.00397 0.00397	<0.00398 0.00398	<0.00399 0.00399	<0.00402 0.00402	<0.00401 0.00401
o-Xylene		<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
Chloride by EPA 300	Extracted:	Sep-30-17 12:00	Sep-30-17 12:00	Sep-30-17 12:00	Sep-30-17 12:00	Sep-30-17 12:00	Sep-30-17 12:00
	Analyzed:	Sep-30-17 14:29	Sep-30-17 14:36	Sep-30-17 14:44	Sep-30-17 14:58	Sep-30-17 14:51	Sep-30-17 15:19
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		389 4.90	2140 24.6	597 4.90	101 4.98	4120 24.6	728 4.99
TPH By SW8015 Mod	Extracted:	Sep-28-17 14:00	Sep-28-17 14:00	Sep-28-17 14:00	Sep-28-17 14:00	Sep-28-17 14:00	Sep-28-17 14:00
	Analyzed:	Sep-29-17 03:39	Sep-29-17 03:59	Sep-29-17 04:20	Sep-29-17 04:41	Sep-29-17 05:43	Sep-29-17 06:03
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)		85.8 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	22.9 15.0	<15.0 15.0
Oil Range Hydrocarbons (ORO)		22.1 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Total TPH		108 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	22.9 15.0	<15.0 15.0

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Holly Taylor
Project Manager



Certificate of Analysis Summary 563850

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Covington A Federal 0002



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Mon Sep-25-17 03:19 pm

Report Date: 03-OCT-17

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	563850-013	563850-014	563850-015			
	Field Id:	SP-5 @ 10.5'	SP-5 @ 13.5'	SP-5 @ 14.5'			
	Depth:						
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Sep-21-17 13:57	Sep-21-17 14:45	Sep-21-17 15:02			
BTEX by EPA 8021B	Extracted:	Sep-29-17 15:00	Sep-29-17 15:00	Sep-29-17 15:00			
	Analyzed:	Sep-29-17 21:22	Sep-29-17 21:40	Sep-29-17 21:59			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200			
Toluene		<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200			
Ethylbenzene		<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200			
m,p-Xylenes		<0.00404 0.00404	<0.00398 0.00398	<0.00401 0.00401			
o-Xylene		<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200			
Total Xylenes		<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200			
Total BTEX		<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200			
Chloride by EPA 300	Extracted:	Sep-30-17 12:00	Sep-30-17 12:00	Sep-30-17 12:00			
	Analyzed:	Sep-30-17 15:27	Sep-30-17 15:48	Sep-30-17 15:55			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		1410 4.98	365 4.94	490 4.98			
TPH By SW8015 Mod	Extracted:	Sep-28-17 14:00	Sep-28-17 14:00	Sep-28-17 14:00			
	Analyzed:	Sep-29-17 06:24	Sep-29-17 06:43	Sep-29-17 07:03			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<14.9 14.9	<15.0 15.0	<15.0 15.0			
Diesel Range Organics (DRO)		<14.9 14.9	<15.0 15.0	20.1 15.0			
Oil Range Hydrocarbons (ORO)		<14.9 14.9	<15.0 15.0	<15.0 15.0			
Total TPH		<14.9 14.9	<15.0 15.0	20.1 15.0			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.0%

Holly Taylor
Project Manager

Analytical Report 563850
for
Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo
Covington A Federal 0002

03-OCT-17

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)
Xenco-San Antonio: Texas (T104704534)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



03-OCT-17

Project Manager: **Ben Arguijo**
Trinity Oilfield Services & Rentals, LLC
PO BOX 2587
Hobbs, NM 88241

Reference: XENCO Report No(s): **563850**
Covington A Federal 0002
Project Address:

Ben Arguijo:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 563850. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 563850 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holly Taylor
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Covington A Federal 0002

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-2 @ 4.5'	S	09-21-17 10:00		563850-001
SP-2 @ 6'	S	09-21-17 10:20		563850-002
SP-2 @ 7'	S	09-21-17 10:41		563850-003
SP-2 @ 8.5'	S	09-21-17 10:55		563850-004
SP-3 @ 4'	S	09-21-17 11:28		563850-005
SP-3 @ 6'	S	09-21-17 11:55		563850-006
SP-3 @ 7'	S	09-21-17 12:08		563850-007
SP-4 @ 4.5'	S	09-21-17 12:30		563850-008
SP-4 @ 8'	S	09-21-17 12:54		563850-009
SP-4 @ 9.5'	S	09-21-17 13:05		563850-010
SP-5 @ 4'	S	09-21-17 13:29		563850-011
SP-5 @ 9.5'	S	09-21-17 13:49		563850-012
SP-5 @ 10.5'	S	09-21-17 13:57		563850-013
SP-5 @ 13.5'	S	09-21-17 14:45		563850-014
SP-5 @ 14.5'	S	09-21-17 15:02		563850-015



CASE NARRATIVE

Client Name: Trinity Oilfield Services & Rentals, LLC

Project Name: Covington A Federal 0002

Project ID:
Work Order Number(s): 563850

Report Date: 03-OCT-17
Date Received: 09/25/2017

Sample receipt non conformances and comments:

9/29/17 Analyze all samples for BTEX per Ben Arguijo.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3029142 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Lab Sample ID 563850-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 563850-001, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015.

The Laboratory Control Sample for m,p-Xylenes, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3029255 Chloride by EPA 300

Lab Sample ID 563850-010 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 563850-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3029280 BTEX by EPA 8021B

Lab Sample ID 563850-002 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 563850-002.

The Laboratory Control Sample for m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: SP-2 @ 4.5'

Matrix: Soil

Date Received: 09.25.17 15.19

Lab Sample Id: 563850-001

Date Collected: 09.21.17 10.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.30.17 12.00

Basis: Wet Weight

Seq Number: 3029255

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	56.6	4.97	mg/kg	09.30.17 13.17		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.28.17 14.00

Basis: Wet Weight

Seq Number: 3028991

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.29.17 00.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.29.17 00.54	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.29.17 00.54	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.29.17 00.54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-135	09.29.17 00.54		
o-Terphenyl	84-15-1	105	%	70-135	09.29.17 00.54		



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-2 @ 4.5'**

Matrix: Soil

Date Received: 09.25.17 15.19

Lab Sample Id: 563850-001

Date Collected: 09.21.17 10.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.29.17 15.00

Basis: Wet Weight

Seq Number: 3029142

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.29.17 17.17	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.29.17 17.17	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.29.17 17.17	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.29.17 17.17	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.29.17 17.17	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.29.17 17.17	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.29.17 17.17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	94	%	80-120	09.29.17 17.17		
4-Bromofluorobenzene	460-00-4	88	%	80-120	09.29.17 17.17		



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-2 @ 6'**
Lab Sample Id: 563850-002

Matrix: Soil
Date Collected: 09.21.17 10.20

Date Received: 09.25.17 15.19

Analytical Method: Chloride by EPA 300
Tech: MNV
Analyst: MNV
Seq Number: 3029255

Prep Method: E300P
% Moisture:
Basis: Wet Weight
Date Prep: 09.30.17 12.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	313	4.99	mg/kg	09.30.17 13.39		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3028991

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight
Date Prep: 09.28.17 14.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.29.17 01.56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.29.17 01.56	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.29.17 01.56	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.29.17 01.56	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-135	09.29.17 01.56		
o-Terphenyl	84-15-1	103	%	70-135	09.29.17 01.56		



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-2 @ 6'**
Lab Sample Id: 563850-002

Matrix: Soil
Date Collected: 09.21.17 10.20

Date Received: 09.25.17 15.19

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 10.02.17 09.00

Basis: Wet Weight

Seq Number: 3029280

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.02.17 11.54	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.02.17 11.54	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.02.17 11.54	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	10.02.17 11.54	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.02.17 11.54	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.02.17 11.54	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.02.17 11.54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	87	%	80-120	10.02.17 11.54		
1,4-Difluorobenzene	540-36-3	94	%	80-120	10.02.17 11.54		



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-2 @ 7'**
Lab Sample Id: 563850-003

Matrix: Soil
Date Collected: 09.21.17 10.41

Date Received: 09.25.17 15.19

Analytical Method: Chloride by EPA 300
Tech: MNV
Analyst: MNV
Seq Number: 3029255

Prep Method: E300P
% Moisture:
Date Prep: 09.30.17 12.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	868	4.97	mg/kg	09.30.17 13.46		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3028991

Prep Method: TX1005P
% Moisture:
Date Prep: 09.28.17 14.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.29.17 02.17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.29.17 02.17	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.29.17 02.17	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.29.17 02.17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-135	09.29.17 02.17		
o-Terphenyl	84-15-1	103	%	70-135	09.29.17 02.17		



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-2 @ 7'**
Lab Sample Id: 563850-003

Matrix: Soil
Date Collected: 09.21.17 10.41

Date Received: 09.25.17 15.19

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.29.17 15.00

Basis: Wet Weight

Seq Number: 3029142

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.29.17 17.36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.29.17 17.36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.29.17 17.36	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.29.17 17.36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.29.17 17.36	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.29.17 17.36	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.29.17 17.36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	87	%	80-120	09.29.17 17.36		
1,4-Difluorobenzene	540-36-3	94	%	80-120	09.29.17 17.36		



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-2 @ 8.5'**

Matrix: Soil

Date Received: 09.25.17 15.19

Lab Sample Id: 563850-004

Date Collected: 09.21.17 10.55

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.30.17 12.00

Basis: Wet Weight

Seq Number: 3029255

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	58.7	4.98	mg/kg	09.30.17 13.53		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.28.17 14.00

Basis: Wet Weight

Seq Number: 3028991

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.29.17 02.37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.29.17 02.37	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.29.17 02.37	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.29.17 02.37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-135	09.29.17 02.37		
o-Terphenyl	84-15-1	105	%	70-135	09.29.17 02.37		



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-2 @ 8.5'**

Matrix: Soil

Date Received: 09.25.17 15.19

Lab Sample Id: 563850-004

Date Collected: 09.21.17 10.55

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.29.17 15.00

Basis: Wet Weight

Seq Number: 3029142

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.29.17 17.54	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.29.17 17.54	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.29.17 17.54	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.29.17 17.54	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.29.17 17.54	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.29.17 17.54	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.29.17 17.54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	87	%	80-120	09.29.17 17.54		
1,4-Difluorobenzene	540-36-3	94	%	80-120	09.29.17 17.54		



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-3 @ 4'**
Lab Sample Id: 563850-005

Matrix: Soil
Date Collected: 09.21.17 11.28

Date Received: 09.25.17 15.19

Analytical Method: Chloride by EPA 300
Tech: MNV
Analyst: MNV
Seq Number: 3029255

Prep Method: E300P
% Moisture:
Basis: Wet Weight
Date Prep: 09.30.17 12.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	450	4.98	mg/kg	09.30.17 14.00		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3028991

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight
Date Prep: 09.28.17 14.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	09.29.17 02.58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	09.29.17 02.58	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	09.29.17 02.58	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	09.29.17 02.58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	113	%	70-135	09.29.17 02.58		
o-Terphenyl	84-15-1	113	%	70-135	09.29.17 02.58		



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-3 @ 4'**
Lab Sample Id: 563850-005

Matrix: Soil
Date Collected: 09.21.17 11.28

Date Received: 09.25.17 15.19

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.29.17 15.00

Basis: Wet Weight

Seq Number: 3029142

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.29.17 18.13	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.29.17 18.13	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.29.17 18.13	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.29.17 18.13	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.29.17 18.13	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.29.17 18.13	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.29.17 18.13	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	88	%	80-120	09.29.17 18.13		
1,4-Difluorobenzene	540-36-3	94	%	80-120	09.29.17 18.13		



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-3 @ 6'**
Lab Sample Id: 563850-006

Matrix: Soil
Date Collected: 09.21.17 11.55

Date Received: 09.25.17 15.19

Analytical Method: Chloride by EPA 300
Tech: MNV
Analyst: MNV
Seq Number: 3029255

Prep Method: E300P
% Moisture:
Date Prep: 09.30.17 12.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	361	4.92	mg/kg	09.30.17 14.22		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3028991

Prep Method: TX1005P
% Moisture:
Date Prep: 09.28.17 14.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.29.17 03.19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.29.17 03.19	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.29.17 03.19	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.29.17 03.19	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	104	%	70-135	09.29.17 03.19		
o-Terphenyl	84-15-1	104	%	70-135	09.29.17 03.19		



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-3 @ 6'**
Lab Sample Id: 563850-006

Matrix: Soil
Date Collected: 09.21.17 11.55

Date Received: 09.25.17 15.19

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.29.17 15.00

Basis: Wet Weight

Seq Number: 3029142

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.29.17 18.32	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.29.17 18.32	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.29.17 18.32	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.29.17 18.32	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.29.17 18.32	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.29.17 18.32	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.29.17 18.32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	85	%	80-120	09.29.17 18.32		
1,4-Difluorobenzene	540-36-3	94	%	80-120	09.29.17 18.32		



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-3 @ 7'**
Lab Sample Id: 563850-007

Matrix: Soil
Date Collected: 09.21.17 12.08

Date Received: 09.25.17 15.19

Analytical Method: Chloride by EPA 300
Tech: MNV
Analyst: MNV
Seq Number: 3029255

Prep Method: E300P
% Moisture:
Date Prep: 09.30.17 12.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	389	4.90	mg/kg	09.30.17 14.29		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3028991

Prep Method: TX1005P
% Moisture:
Date Prep: 09.28.17 14.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.29.17 03.39	U	1
Diesel Range Organics (DRO)	C10C28DRO	85.8	15.0	mg/kg	09.29.17 03.39		1
Oil Range Hydrocarbons (ORO)	PHCG2835	22.1	15.0	mg/kg	09.29.17 03.39		1
Total TPH	PHC635	108	15.0	mg/kg	09.29.17 03.39		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	100	%	70-135	09.29.17 03.39		
o-Terphenyl	84-15-1	99	%	70-135	09.29.17 03.39		



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-3 @ 7'**
Lab Sample Id: 563850-007

Matrix: Soil
Date Collected: 09.21.17 12.08

Date Received: 09.25.17 15.19

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.29.17 15.00

Basis: Wet Weight

Seq Number: 3029142

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.29.17 18.51	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.29.17 18.51	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.29.17 18.51	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.29.17 18.51	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.29.17 18.51	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.29.17 18.51	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.29.17 18.51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	81	%	80-120	09.29.17 18.51		
1,4-Difluorobenzene	540-36-3	103	%	80-120	09.29.17 18.51		



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-4 @ 4.5'**

Matrix: Soil

Date Received: 09.25.17 15.19

Lab Sample Id: 563850-008

Date Collected: 09.21.17 12.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.30.17 12.00

Basis: Wet Weight

Seq Number: 3029255

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2140	24.6	mg/kg	09.30.17 14.36		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.28.17 14.00

Basis: Wet Weight

Seq Number: 3028991

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.29.17 03.59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.29.17 03.59	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.29.17 03.59	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.29.17 03.59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	106	%	70-135	09.29.17 03.59		
o-Terphenyl	84-15-1	104	%	70-135	09.29.17 03.59		



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-4 @ 4.5'**

Matrix: Soil

Date Received: 09.25.17 15.19

Lab Sample Id: 563850-008

Date Collected: 09.21.17 12.30

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.29.17 15.00

Basis: Wet Weight

Seq Number: 3029142

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.29.17 19.10	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.29.17 19.10	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.29.17 19.10	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.29.17 19.10	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.29.17 19.10	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.29.17 19.10	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.29.17 19.10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	87	%	80-120	09.29.17 19.10		
1,4-Difluorobenzene	540-36-3	93	%	80-120	09.29.17 19.10		



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-4 @ 8'**
Lab Sample Id: 563850-009

Matrix: Soil
Date Collected: 09.21.17 12.54

Date Received: 09.25.17 15.19

Analytical Method: Chloride by EPA 300
Tech: MNV
Analyst: MNV
Seq Number: 3029255

Prep Method: E300P
% Moisture:
Basis: Wet Weight
Date Prep: 09.30.17 12.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	597	4.90	mg/kg	09.30.17 14.44		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3028991

Prep Method: TX1005P
% Moisture:
Basis: Wet Weight
Date Prep: 09.28.17 14.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.29.17 04.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.29.17 04.20	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.29.17 04.20	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.29.17 04.20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	98	%	70-135	09.29.17 04.20		
o-Terphenyl	84-15-1	97	%	70-135	09.29.17 04.20		



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-4 @ 8'**
Lab Sample Id: 563850-009

Matrix: Soil
Date Collected: 09.21.17 12.54

Date Received: 09.25.17 15.19

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.29.17 15.00

Basis: Wet Weight

Seq Number: 3029142

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.29.17 19.28	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.29.17 19.28	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.29.17 19.28	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.29.17 19.28	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.29.17 19.28	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.29.17 19.28	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.29.17 19.28	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	94	%	80-120	09.29.17 19.28		
4-Bromofluorobenzene	460-00-4	87	%	80-120	09.29.17 19.28		



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-4 @ 9.5'**

Matrix: Soil

Date Received: 09.25.17 15.19

Lab Sample Id: 563850-010

Date Collected: 09.21.17 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.30.17 12.00

Basis: Wet Weight

Seq Number: 3029255

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	101	4.98	mg/kg	09.30.17 14.58		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.28.17 14.00

Basis: Wet Weight

Seq Number: 3028991

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.29.17 04.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.29.17 04.41	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.29.17 04.41	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.29.17 04.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	09.29.17 04.41	
o-Terphenyl	84-15-1	94	%	70-135	09.29.17 04.41	



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-4 @ 9.5'**

Matrix: Soil

Date Received: 09.25.17 15.19

Lab Sample Id: 563850-010

Date Collected: 09.21.17 13.05

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.29.17 15.00

Basis: Wet Weight

Seq Number: 3029142

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.29.17 19.47	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.29.17 19.47	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.29.17 19.47	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.29.17 19.47	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.29.17 19.47	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.29.17 19.47	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.29.17 19.47	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	93	%	80-120	09.29.17 19.47		
4-Bromofluorobenzene	460-00-4	86	%	80-120	09.29.17 19.47		



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-5 @ 4'**
Lab Sample Id: 563850-011

Matrix: Soil
Date Collected: 09.21.17 13.29

Date Received: 09.25.17 15.19

Analytical Method: Chloride by EPA 300
Tech: MNV
Analyst: MNV
Seq Number: 3029255

Prep Method: E300P
% Moisture:
Date Prep: 09.30.17 12.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4120	24.6	mg/kg	09.30.17 14.51		5

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3028991

Prep Method: TX1005P
% Moisture:
Date Prep: 09.28.17 14.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.29.17 05.43	U	1
Diesel Range Organics (DRO)	C10C28DRO	22.9	15.0	mg/kg	09.29.17 05.43		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.29.17 05.43	U	1
Total TPH	PHC635	22.9	15.0	mg/kg	09.29.17 05.43		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	107	%	70-135	09.29.17 05.43		
o-Terphenyl	84-15-1	106	%	70-135	09.29.17 05.43		



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-5 @ 4'**
Lab Sample Id: 563850-011

Matrix: Soil
Date Collected: 09.21.17 13.29

Date Received: 09.25.17 15.19

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.29.17 15.00

Basis: Wet Weight

Seq Number: 3029142

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.29.17 20.06	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.29.17 20.06	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.29.17 20.06	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.29.17 20.06	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.29.17 20.06	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.29.17 20.06	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.29.17 20.06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	87	%	80-120	09.29.17 20.06		
1,4-Difluorobenzene	540-36-3	93	%	80-120	09.29.17 20.06		



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-5 @ 9.5'**

Matrix: Soil

Date Received: 09.25.17 15.19

Lab Sample Id: 563850-012

Date Collected: 09.21.17 13.49

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.30.17 12.00

Basis: Wet Weight

Seq Number: 3029255

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	728	4.99	mg/kg	09.30.17 15.19		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.28.17 14.00

Basis: Wet Weight

Seq Number: 3028991

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.29.17 06.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.29.17 06.03	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.29.17 06.03	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.29.17 06.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	09.29.17 06.03	
o-Terphenyl	84-15-1	100	%	70-135	09.29.17 06.03	



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-5 @ 9.5'**

Matrix: Soil

Date Received: 09.25.17 15.19

Lab Sample Id: 563850-012

Date Collected: 09.21.17 13.49

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.29.17 15.00

Basis: Wet Weight

Seq Number: 3029142

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.29.17 21.03	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.29.17 21.03	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.29.17 21.03	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.29.17 21.03	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.29.17 21.03	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.29.17 21.03	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.29.17 21.03	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	94	%	80-120	09.29.17 21.03		
4-Bromofluorobenzene	460-00-4	86	%	80-120	09.29.17 21.03		



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-5 @ 10.5'**

Matrix: Soil

Date Received: 09.25.17 15.19

Lab Sample Id: 563850-013

Date Collected: 09.21.17 13.57

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.30.17 12.00

Basis: Wet Weight

Seq Number: 3029255

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1410	4.98	mg/kg	09.30.17 15.27		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.28.17 14.00

Basis: Wet Weight

Seq Number: 3028991

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	09.29.17 06.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	09.29.17 06.24	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<14.9	14.9	mg/kg	09.29.17 06.24	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	09.29.17 06.24	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-135	09.29.17 06.24		
o-Terphenyl	84-15-1	105	%	70-135	09.29.17 06.24		



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-5 @ 10.5'**

Matrix: Soil

Date Received: 09.25.17 15.19

Lab Sample Id: 563850-013

Date Collected: 09.21.17 13.57

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.29.17 15.00

Basis: Wet Weight

Seq Number: 3029142

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.29.17 21.22	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.29.17 21.22	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.29.17 21.22	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	09.29.17 21.22	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.29.17 21.22	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.29.17 21.22	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.29.17 21.22	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	84	%	80-120	09.29.17 21.22		
1,4-Difluorobenzene	540-36-3	95	%	80-120	09.29.17 21.22		



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: SP-5 @ 13.5'

Matrix: Soil

Date Received: 09.25.17 15.19

Lab Sample Id: 563850-014

Date Collected: 09.21.17 14.45

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MNV

% Moisture:

Analyst: MNV

Date Prep: 09.30.17 12.00

Basis: Wet Weight

Seq Number: 3029255

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	365	4.94	mg/kg	09.30.17 15.48		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 09.28.17 14.00

Basis: Wet Weight

Seq Number: 3028991

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.29.17 06.43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.29.17 06.43	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.29.17 06.43	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.29.17 06.43	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	113	%	70-135	09.29.17 06.43		
o-Terphenyl	84-15-1	111	%	70-135	09.29.17 06.43		



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: SP-5 @ 13.5'

Matrix: Soil

Date Received: 09.25.17 15.19

Lab Sample Id: 563850-014

Date Collected: 09.21.17 14.45

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.29.17 15.00

Basis: Wet Weight

Seq Number: 3029142

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.29.17 21.40	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.29.17 21.40	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.29.17 21.40	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.29.17 21.40	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.29.17 21.40	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.29.17 21.40	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.29.17 21.40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	83	%	80-120	09.29.17 21.40		
1,4-Difluorobenzene	540-36-3	98	%	80-120	09.29.17 21.40		



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-5 @ 14.5'** Matrix: Soil Date Received: 09.25.17 15.19
Lab Sample Id: 563850-015 Date Collected: 09.21.17 15.02
Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: MNV % Moisture:
Analyst: MNV Date Prep: 09.30.17 12.00 Basis: Wet Weight
Seq Number: 3029255

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	490	4.98	mg/kg	09.30.17 15.55		1

Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 09.28.17 14.00 Basis: Wet Weight
Seq Number: 3028991

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.29.17 07.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	20.1	15.0	mg/kg	09.29.17 07.03		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	09.29.17 07.03	U	1
Total TPH	PHC635	20.1	15.0	mg/kg	09.29.17 07.03		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	106	%	70-135	09.29.17 07.03		
o-Terphenyl	84-15-1	104	%	70-135	09.29.17 07.03		



Certificate of Analytical Results 563850



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-5 @ 14.5'**

Matrix: Soil

Date Received: 09.25.17 15.19

Lab Sample Id: 563850-015

Date Collected: 09.21.17 15.02

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.29.17 15.00

Basis: Wet Weight

Seq Number: 3029142

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.29.17 21.59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.29.17 21.59	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.29.17 21.59	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.29.17 21.59	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.29.17 21.59	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.29.17 21.59	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.29.17 21.59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	80-120	09.29.17 21.59		
4-Bromofluorobenzene	460-00-4	82	%	80-120	09.29.17 21.59		

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(602) 437-0330	



QC Summary 563850

Trinity Oilfield Services & Rentals, LLC Covington A Federal 0002

Analytical Method: Chloride by EPA 300

Seq Number: 3029255

MB Sample Id: 7631867-1-BLK

Matrix: Solid

LCS Sample Id: 7631867-1-BKS

Prep Method: E300P

Date Prep: 09.30.17

LCSD Sample Id: 7631867-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	235	94	235	94	90-110	0	20	mg/kg	09.30.17 13:03	

Analytical Method: Chloride by EPA 300

Seq Number: 3029255

Parent Sample Id: 563850-001

Matrix: Soil

MS Sample Id: 563850-001 S

Prep Method: E300P

Date Prep: 09.30.17

MSD Sample Id: 563850-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	56.6	249	281	90	278	89	90-110	1	20	mg/kg	09.30.17 13:25	X

Analytical Method: Chloride by EPA 300

Seq Number: 3029255

Parent Sample Id: 563850-010

Matrix: Soil

MS Sample Id: 563850-010 S

Prep Method: E300P

Date Prep: 09.30.17

MSD Sample Id: 563850-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	101	249	325	90	324	90	90-110	0	20	mg/kg	09.30.17 15:05	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3028991

MB Sample Id: 731750-1-BLK

Matrix: Solid

LCS Sample Id: 731750-1-BKS

Prep Method: TX1005P

Date Prep: 09.28.17

LCSD Sample Id: 731750-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	986	99	966	97	70-135	2	35	mg/kg	09.29.17 00:11	
Diesel Range Organics (DRO)	<15.0	1000	1050	105	1020	102	70-135	3	35	mg/kg	09.29.17 00:11	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	98		104		102		70-135	%	09.29.17 00:11
o-Terphenyl	95		101		99		70-135	%	09.29.17 00:11



QC Summary 563850

Trinity Oilfield Services & Rentals, LLC Covington A Federal 0002

Analytical Method: TPH By SW8015 Mod

Seq Number: 3028991

Parent Sample Id: 563850-001

Matrix: Soil

MS Sample Id: 563850-001 S

Prep Method: TX1005P

Date Prep: 09.28.17

MSD Sample Id: 563850-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	999	1000	100	1020	102	70-135	2	35	mg/kg	09.29.17 01:14	
Diesel Range Organics (DRO)	<15.0	999	1050	105	1020	102	70-135	3	35	mg/kg	09.29.17 01:14	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	101		93		70-135	%	09.29.17 01:14
o-Terphenyl	96		88		70-135	%	09.29.17 01:14

Analytical Method: BTEX by EPA 8021B

Seq Number: 3029142

MB Sample Id: 7631855-1-BLK

Matrix: Solid

LCS Sample Id: 7631855-1-BKS

Prep Method: SW5030B

Date Prep: 09.29.17

LCSD Sample Id: 7631855-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.105	104	0.104	104	70-130	1	35	mg/kg	09.29.17 15:06	
Toluene	<0.00202	0.101	0.100	99	0.0991	99	70-130	1	35	mg/kg	09.29.17 15:06	
Ethylbenzene	<0.00202	0.101	0.100	99	0.0990	99	71-129	1	35	mg/kg	09.29.17 15:06	
m,p-Xylenes	<0.00403	0.202	0.195	97	0.193	96	70-135	1	35	mg/kg	09.29.17 15:06	
o-Xylene	<0.00202	0.101	0.0942	93	0.0935	94	71-133	1	35	mg/kg	09.29.17 15:06	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		97		97		80-120	%	09.29.17 15:06
4-Bromofluorobenzene	86		91		92		80-120	%	09.29.17 15:06

Analytical Method: BTEX by EPA 8021B

Seq Number: 3029280

MB Sample Id: 7631948-1-BLK

Matrix: Solid

LCS Sample Id: 7631948-1-BKS

Prep Method: SW5030B

Date Prep: 10.02.17

LCSD Sample Id: 7631948-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.105	105	0.106	105	70-130	1	35	mg/kg	10.02.17 09:43	
Toluene	<0.00200	0.0998	0.0991	99	0.101	100	70-130	2	35	mg/kg	10.02.17 09:43	
Ethylbenzene	<0.00200	0.0998	0.0982	98	0.100	99	71-129	2	35	mg/kg	10.02.17 09:43	
m,p-Xylenes	<0.00399	0.200	0.191	96	0.194	96	70-135	2	35	mg/kg	10.02.17 09:43	
o-Xylene	<0.00200	0.0998	0.0921	92	0.0940	93	71-133	2	35	mg/kg	10.02.17 09:43	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		97		97		80-120	%	10.02.17 09:43
4-Bromofluorobenzene	80		89		90		80-120	%	10.02.17 09:43



QC Summary 563850

Trinity Oilfield Services & Rentals, LLC Covington A Federal 0002

Analytical Method: BTEX by EPA 8021B

Seq Number: 3029142

Parent Sample Id: 563850-001

Matrix: Soil

MS Sample Id: 563850-001 S

Prep Method: SW5030B

Date Prep: 09.29.17

MSD Sample Id: 563850-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0831	83	0.0808	80	70-130	3	35	mg/kg	09.29.17 15:42	
Toluene	<0.00199	0.0996	0.0779	78	0.0728	72	70-130	7	35	mg/kg	09.29.17 15:42	
Ethylbenzene	<0.00199	0.0996	0.0768	77	0.0716	71	71-129	7	35	mg/kg	09.29.17 15:42	
m,p-Xylenes	<0.00398	0.199	0.149	75	0.137	68	70-135	8	35	mg/kg	09.29.17 15:42	X
o-Xylene	<0.00199	0.0996	0.0737	74	0.0686	68	71-133	7	35	mg/kg	09.29.17 15:42	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		99		80-120	%	09.29.17 15:42
4-Bromofluorobenzene	94		87		80-120	%	09.29.17 15:42

Analytical Method: BTEX by EPA 8021B

Seq Number: 3029280

Parent Sample Id: 563850-002

Matrix: Soil

MS Sample Id: 563850-002 S

Prep Method: SW5030B

Date Prep: 10.02.17

MSD Sample Id: 563850-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0828	83	0.0791	78	70-130	5	35	mg/kg	10.02.17 10:21	
Toluene	<0.00200	0.100	0.0785	79	0.0738	73	70-130	6	35	mg/kg	10.02.17 10:21	
Ethylbenzene	<0.00200	0.100	0.0762	76	0.0697	69	71-129	9	35	mg/kg	10.02.17 10:21	X
m,p-Xylenes	<0.00401	0.200	0.148	74	0.135	67	70-135	9	35	mg/kg	10.02.17 10:21	X
o-Xylene	<0.00200	0.100	0.0726	73	0.0675	67	71-133	7	35	mg/kg	10.02.17 10:21	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	93		95		80-120	%	10.02.17 10:21
4-Bromofluorobenzene	90		90		80-120	%	10.02.17 10:21



CHAIN OF CUSTODY RECORD

Houston: 4143 Greenbrier Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800

Page 1 of 2

LAB W.O #:

Field billable Hrs :

563850

* Container Type Codes

VA Vial Amber ES Encore Sampler
VC Vial Clear TS TerraCore Sampler
VP Vial Pre-preserved AC Air Canister
GA Glass Amber TB Tedlar Bag
GC Glass Clear ZB Zip Lock Bag
PA Plastic Amber PC Plastic Clear
Other _____

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal
40ml, 125 ml, 250 ml, 500 ml, 1L, Other

** Preservative Type Codes

A. None E. HCL I. Ice C.
B. HNO₃ F. MeOH J. MCAA
H₂SO₄ G. Na₂S₂O₅ K. ZnAc/NaOH
D. NaOH H. NaHSO₄ L. Asbc Acid/NaOH
O. _____

^ Matrix Type Codes

GW Ground Water S Soil/Sediment/Solid
WW Waste Water W Wipe
DW Drinking Water A Air
SW Surface Water O Oil
OW Ocean/Sea Water T Tissue
PL Product-Liquid U Urine
PS Product-Solid B Blood
SL Sludge
Other _____

REMARKS

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

Company:	Trinity Oilfield Services & Rentals, LLC	Phone:	(575)390-7208
Address:	P.O. Box 2587	Fax:	
City:	Hobbs	State:	NM
		Zip:	88241
PM/Attn:	Ben J. Arguijo	Email:	wade.dittrich@oxy.com & ben@trinityoilfieldservices.com
Project ID:	Covington A Federal 0002	PO#:	
Invoice To:	Oxy - Wade Dittrich (575)390-2828	Quote #:	

Sampler Name:	Duskie Bennett	Circle One Event:	Daily Weekly Monthly Quarterly
		Semi-Annual Annual N/A	

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered	Integrity (Y/N)	Total # of containers	Example Volatiles by 8260	# Cont	Lab Only:
----------	-----------	--------------	--------------	---------------	----------------	-----------------	-----------------------	---------------------------	--------	-----------

1	SP-2 @ 4.5'	9/21/17	1000	S			1	TPH 8015M		X
2	SP-2 @ 6'	9/21/17	1020	S			1	BTEX		X
3	SP-2 @ 7'	9/21/17	1041	S			1	Chloride		X
4	SP-2 @ 8.5'	9/21/17	1055	S			1			X
5	SP-3 @ 4'	9/21/17	1128	S			1			X
6	SP-3 @ 6'	9/21/17	1155	S			1			X
7	SP-3 @ 7'	9/21/17	1208	S			1			X
8	SP-4 @ 4.5'	9/21/17	1230	S			1			X
9	SP-4 @ 8'	9/21/17	1254	S			1			X
0	SP-4 @ 9.5'	9/21/17	1305	S			1			X

Reg. Program / Clean-up Std	STATE for Certs & Regs	QA/QC Level & Certification	EDDs	COC & Labels	Coolers Temp °C	Lab Use Only
CTLs TRRP DW NPDES LPST DryCln Other:	FL TX GA NC SC NJ PA OK LA AL NM Other:	1 2 3 4 CLP AFCEE QAPP NELAC DoD-ELAP Other:	ADaPT SEDD ERPIMS XLS Other:	Match Incomplete Absent Unclear	12.2 3	Non-Conformances found? Samples intact upon arrival?

Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
Duskie Bennett	Trinity	9/25/17	15:18	Brittany Cox	Conningley	9/25/17	3:19
						9/26/17	11:00

B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330

FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously a shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full. Revision Date: N

Temp: 2.5 IR ID: R-8
CF: (0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 23



XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In



Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 09/25/2017 03:19:00 PM

Work Order #: 563850

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Shawnee Smith

Date: 09/27/2017

Checklist reviewed by:

Holly Taylor

Date: 09/27/2017



Certificate of Analysis Summary 565842

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Covington A Federal 0002



Project Id:

Contact: Ben Arguijo

Project Location: Hobbs

Date Received in Lab: Tue Oct-17-17 10:55 am

Report Date: 25-OCT-17

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	565842-001	565842-002				
	Field Id:	SP-1@2'	SP-1@3.5'				
	Depth:						
	Matrix:	SOIL	SOIL				
	Sampled:	Oct-16-17 10:47	Oct-16-17 10:56				
BTEX by EPA 8021B	Extracted:	Oct-25-17 08:00	Oct-25-17 08:00				
	Analyzed:	Oct-25-17 10:37	Oct-25-17 10:56				
	Units/RL:	mg/kg RL	mg/kg RL				
Benzene		<0.00336 0.00336	<0.00330 0.00330				
Toluene		<0.00336 0.00336	<0.00330 0.00330				
Ethylbenzene		<0.00336 0.00336	<0.00330 0.00330				
m,p-Xylenes		<0.00671 0.00671	<0.00660 0.00660				
o-Xylene		<0.00336 0.00336	<0.00330 0.00330				
Total Xylenes		<0.00336 0.00336	<0.00330 0.00330				
Total BTEX		<0.00336 0.00336	<0.00330 0.00330				
Chloride by EPA 300	Extracted:	Oct-23-17 12:00	Oct-23-17 12:00				
	Analyzed:	Oct-23-17 18:42	Oct-23-17 18:49				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		20.0 4.96	328 5.00				
TPH By SW8015 Mod	Extracted:	Oct-18-17 11:00	Oct-18-17 11:00				
	Analyzed:	Oct-18-17 21:20	Oct-18-17 21:40				
	Units/RL:	mg/kg RL	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0				
Diesel Range Organics (DRO)		1710 15.0	1020 15.0				
Oil Range Hydrocarbons (ORO)		420 15.0	185 15.0				
Total TPH		2130 15.0	1210 15.0				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Holly Taylor
Project Manager

Analytical Report 565842
for
Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo
Covington A Federal 0002

25-OCT-17

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):
Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



25-OCT-17

Project Manager: **Ben Arguijo**
Trinity Oilfield Services & Rentals, LLC
PO BOX 2587
Hobbs, NM 88241

Reference: XENCO Report No(s): **565842**
Covington A Federal 0002
Project Address: Hobbs

Ben Arguijo:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 565842. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 565842 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holly Taylor
Project Manager

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Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 565842



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Covington A Federal 0002

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-1@2'	S	10-16-17 10:47		565842-001
SP-1@3.5'	S	10-16-17 10:56		565842-002



CASE NARRATIVE

Client Name: *Trinity Oilfield Services & Rentals, LLC*

Project Name: *Covington A Federal 0002*

Project ID:
Work Order Number(s): 565842

Report Date: 25-OCT-17
Date Received: 10/17/2017

Sample receipt non conformances and comments:

10/24/17 Run BTEX on both samples.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3031366 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analytical Results 565842



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-1@2'**
Lab Sample Id: 565842-001

Matrix: Soil
Date Collected: 10.16.17 10.47

Date Received: 10.17.17 10.55

Analytical Method: Chloride by EPA 300
Tech: MNV
Analyst: MNV
Seq Number: 3031231

Prep Method: E300P
% Moisture:
Date Prep: 10.23.17 12.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	20.0	4.96	mg/kg	10.23.17 18.42		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3030818

Prep Method: TX1005P
% Moisture:
Date Prep: 10.18.17 11.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	10.18.17 21.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	1710	15.0	mg/kg	10.18.17 21.20		1
Oil Range Hydrocarbons (ORO)	PHCG2835	420	15.0	mg/kg	10.18.17 21.20		1
Total TPH	PHC635	2130	15.0	mg/kg	10.18.17 21.20		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	99	%	70-135	10.18.17 21.20		
o-Terphenyl	84-15-1	81	%	70-135	10.18.17 21.20		



Certificate of Analytical Results 565842



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-1@2'**
Lab Sample Id: 565842-001

Matrix: Soil
Date Collected: 10.16.17 10.47

Date Received: 10.17.17 10.55

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 10.25.17 08.00

Basis: Wet Weight

Seq Number: 3031366

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00336	0.00336	mg/kg	10.25.17 10.37	U	1
Toluene	108-88-3	<0.00336	0.00336	mg/kg	10.25.17 10.37	U	1
Ethylbenzene	100-41-4	<0.00336	0.00336	mg/kg	10.25.17 10.37	U	1
m,p-Xylenes	179601-23-1	<0.00671	0.00671	mg/kg	10.25.17 10.37	U	1
o-Xylene	95-47-6	<0.00336	0.00336	mg/kg	10.25.17 10.37	U	1
Total Xylenes	1330-20-7	<0.00336	0.00336	mg/kg	10.25.17 10.37	U	1
Total BTEX		<0.00336	0.00336	mg/kg	10.25.17 10.37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	87	%	80-120	10.25.17 10.37		
1,4-Difluorobenzene	540-36-3	90	%	80-120	10.25.17 10.37		



Certificate of Analytical Results 565842



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-1@3.5'**
Lab Sample Id: 565842-002

Matrix: Soil
Date Collected: 10.16.17 10.56

Date Received: 10.17.17 10.55

Analytical Method: Chloride by EPA 300
Tech: MNV
Analyst: MNV
Seq Number: 3031231

Prep Method: E300P
% Moisture:
Date Prep: 10.23.17 12.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	328	5.00	mg/kg	10.23.17 18.49		1

Analytical Method: TPH By SW8015 Mod
Tech: ARM
Analyst: ARM
Seq Number: 3030818

Prep Method: TX1005P
% Moisture:
Date Prep: 10.18.17 11.00
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	10.18.17 21.40	U	1
Diesel Range Organics (DRO)	C10C28DRO	1020	15.0	mg/kg	10.18.17 21.40		1
Oil Range Hydrocarbons (ORO)	PHCG2835	185	15.0	mg/kg	10.18.17 21.40		1
Total TPH	PHC635	1210	15.0	mg/kg	10.18.17 21.40		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	100	%	70-135	10.18.17 21.40		
o-Terphenyl	84-15-1	90	%	70-135	10.18.17 21.40		



Certificate of Analytical Results 565842



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-1@3.5'**

Matrix: Soil

Date Received: 10.17.17 10.55

Lab Sample Id: 565842-002

Date Collected: 10.16.17 10.56

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 10.25.17 08.00

Basis: Wet Weight

Seq Number: 3031366

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00330	0.00330	mg/kg	10.25.17 10.56	U	1
Toluene	108-88-3	<0.00330	0.00330	mg/kg	10.25.17 10.56	U	1
Ethylbenzene	100-41-4	<0.00330	0.00330	mg/kg	10.25.17 10.56	U	1
m,p-Xylenes	179601-23-1	<0.00660	0.00660	mg/kg	10.25.17 10.56	U	1
o-Xylene	95-47-6	<0.00330	0.00330	mg/kg	10.25.17 10.56	U	1
Total Xylenes	1330-20-7	<0.00330	0.00330	mg/kg	10.25.17 10.56	U	1
Total BTEX		<0.00330	0.00330	mg/kg	10.25.17 10.56	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	94	%	80-120	10.25.17 10.56		
1,4-Difluorobenzene	540-36-3	91	%	80-120	10.25.17 10.56		

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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 1211 W Florida Ave, Midland, TX 79701
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(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(432) 563-1800	(432) 563-1713
(602) 437-0330	

Trinity Oilfield Services & Rentals, LLC
Covington A Federal 0002

Analytical Method: Chloride by EPA 300

Seq Number: 3031231

MB Sample Id: 7633092-1-BLK

Matrix: Solid

LCS Sample Id: 7633092-1-BKS

Prep Method: E300P

Date Prep: 10.23.17

LCSD Sample Id: 7633092-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	247	99	246	98	90-110	0	20	mg/kg	10.23.17 16:22	

Analytical Method: Chloride by EPA 300

Seq Number: 3031231

Parent Sample Id: 565936-015

Matrix: Soil

MS Sample Id: 565936-015 S

Prep Method: E300P

Date Prep: 10.23.17

MSD Sample Id: 565936-015 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	127	246	365	97	369	98	90-110	1	20	mg/kg	10.23.17 16:42	

Analytical Method: Chloride by EPA 300

Seq Number: 3031231

Parent Sample Id: 565936-019

Matrix: Soil

MS Sample Id: 565936-019 S

Prep Method: E300P

Date Prep: 10.23.17

MSD Sample Id: 565936-019 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6.73	249	258	101	259	101	90-110	0	20	mg/kg	10.23.17 18:28	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3030818

MB Sample Id: 7632853-1-BLK

Matrix: Solid

LCS Sample Id: 7632853-1-BKS

Prep Method: TX1005P

Date Prep: 10.18.17

LCSD Sample Id: 7632853-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	1020	102	1090	109	70-135	7	35	mg/kg	10.18.17 16:12	
Diesel Range Organics (DRO)	<15.0	1000	1070	107	1140	114	70-135	6	35	mg/kg	10.18.17 16:12	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	96		108		106		70-135	%	10.18.17 16:12
o-Terphenyl	92		100		95		70-135	%	10.18.17 16:12

Trinity Oilfield Services & Rentals, LLC
Covington A Federal 0002

Analytical Method: TPH By SW8015 Mod

Seq Number: 3030818

Parent Sample Id: 565814-001

Matrix: Soil

MS Sample Id: 565814-001 S

Prep Method: TX1005P

Date Prep: 10.18.17

MSD Sample Id: 565814-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	999	1090	109	1130	113	70-135	4	35	mg/kg	10.18.17 17:15	
Diesel Range Organics (DRO)	<15.0	999	1160	116	1170	117	70-135	1	35	mg/kg	10.18.17 17:15	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	129		109		70-135	%	10.18.17 17:15
o-Terphenyl	103		106		70-135	%	10.18.17 17:15

Analytical Method: BTEX by EPA 8021B

Seq Number: 3031366

MB Sample Id: 7633181-1-BLK

Matrix: Solid

LCS Sample Id: 7633181-1-BKS

Prep Method: SW5030B

Date Prep: 10.25.17

LCSD Sample Id: 7633181-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.121	120	0.125	125	70-130	3	35	mg/kg	10.25.17 08:05	
Toluene	<0.00201	0.101	0.115	114	0.118	118	70-130	3	35	mg/kg	10.25.17 08:05	
Ethylbenzene	<0.00201	0.101	0.115	114	0.117	117	71-129	2	35	mg/kg	10.25.17 08:05	
m,p-Xylenes	<0.00402	0.201	0.229	114	0.232	116	70-135	1	35	mg/kg	10.25.17 08:05	
o-Xylene	<0.00201	0.101	0.110	109	0.112	112	71-133	2	35	mg/kg	10.25.17 08:05	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	93		91		81		80-120	%	10.25.17 08:05
4-Bromofluorobenzene	90		96		95		80-120	%	10.25.17 08:05

Analytical Method: BTEX by EPA 8021B

Seq Number: 3031366

Parent Sample Id: 566207-001

Matrix: Soil

MS Sample Id: 566207-001 S

Prep Method: SW5030B

Date Prep: 10.25.17

MSD Sample Id: 566207-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.102	101	0.106	106	70-130	4	35	mg/kg	10.25.17 08:43	
Toluene	<0.00202	0.101	0.0922	91	0.0958	96	70-130	4	35	mg/kg	10.25.17 08:43	
Ethylbenzene	<0.00202	0.101	0.0808	80	0.0821	82	71-129	2	35	mg/kg	10.25.17 08:43	
m,p-Xylenes	<0.00403	0.202	0.160	79	0.162	81	70-135	1	35	mg/kg	10.25.17 08:43	
o-Xylene	<0.00202	0.101	0.0784	78	0.0801	80	71-133	2	35	mg/kg	10.25.17 08:43	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		101		80-120	%	10.25.17 08:43
4-Bromofluorobenzene	106		109		80-120	%	10.25.17 08:43



CHAIN OF CUSTODY RECORD

Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800
:roool-c

Page 1 of 1

LAB W.O #:

5105842

Field billable Hrs :

* Container Type Codes

VA Vial Amber	ES Encore Sampler
VC Vial Clear	TS TerraCore Sampler
VP Vial Pre-preserved	AC Air Canister
GA Glass Amber	TB Tedlar Bag
GC Glass Clear	ZB Zip Lock Bag
PA Plastic Amber	PC Plastic Clear
PC Plastic Clear	
Other	

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal
40ml, 125 ml, 250 ml, 500 ml, 1L, Other

** Preservative Type Codes

A. None	E. HCL	I. Ice	
B. HNO ₃	F. MeOH	J. MCAA	C.
H ₂ SO ₄	G. Na ₂ S ₂ O ₃	K. ZnAc/NaOH	
D. NaOH	H. NaHSO ₄	L. Asbc Acid/NaOH	
O.			

^ Matrix Type Codes

GW Ground Water	S Soil/Sediment/Solid
WW Waste Water	W Wipe
DW Drinking Water	A Air
SW Surface Water	O Oil
OW Ocean/Sea Water	T Tissue
PL Product-Liquid	U Urine
PS Product-Solid	B Blood
SL Sludge	
Other	

REMARKS

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

Temp: -3.3 IR ID:R-8
CF:(0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: -3.4

Company:	Trinity Oilfield Services & Rentals, LLC	Phone:	(575)390-7208
Address:	P.O. Box 2587	Fax:	
City:	Hobbs	State:	NM
		Zip:	88241
PM/Attn:	Ben J. Arguijo	Email:	wade.dittrich@oxy.com & ben@trinityoilfieldservices.com
Project ID:	Covington A Federal 0002	PO#:	
Invoice To:	Oxy - Wade Dittrich (575)390-2828	Quote #:	

Sampler Name:	Duskie Bennett	Circle One Event:	Daily Weekly Monthly Quarterly
		Semi-Annual	Annual N/A

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered	Integrity OK (Y/N)	Total # of containers	Example Volatiles by 8260	# Cont	Lab Only:
1	SP-1 @ 2'	10/16/17	1047	S			1	TPH 8015M		X
2	SP-1 @ 3.5'	10/16/17	1056	S			1	BTEX		X
3								Chloride		
4										
5										
6										
7										
8										
9										
0										

Reg. Program / Clean-up Std	STATE for Certs & Regs	QA/QC Level & Certification	EDDs	COC & Labels	Coolers Temp °C	Lab Use Only	
CTLs TRRP DW NPDES LPST DryCln Other:	FL TX GA NC SC NJ PA OK LA AL NM Other:	1 2 3 4 CLP AFCEE QAPP NELAC DoD-ELAP Other:	ADaPT SEDD ERPIMS XLS Other:	Match Incomplete Absent Unclear	1-0.42 3	Non-Conformances found? Samples intact upon arrival? Received on Wet Ice? Labeled with proper preservatives? Received within holding time? Custody seals intact? VOCs rec'd w/o headspace? Proper containers used? pH verified-acceptable, exd VOCs? Received on time to meet HTs?	
Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
Duskie Bennett	Trinity	10/17/17	1050	Shantia	W56065	10-17-17	1055
				Wade Dittrich	Xenco	10-18-17	11:00

B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330

FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

C.O.C. Serial #

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net 30 days, and all past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full. Revision Date: Nov 12, 2009



XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In



Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 10/17/2017 10:55:00 AM

Work Order #: 565842

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	-.4
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Shawnee Smith

Date: 10/18/2017

Checklist reviewed by:

Holly Taylor

Date: 10/18/2017



Certificate of Analysis Summary 572902

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Covington A Federal 0002



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Mon Jan-08-18 04:26 pm

Report Date: 22-JAN-18

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	572902-001	572902-002	572902-003	572902-004		
	Field Id:	SP-4-Wall @2'	SP-5-Wall @2'	SP-6-Wall @2'	SP-7-Wall @2'		
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL		
	Sampled:	Jan-08-18 09:55	Jan-08-18 10:00	Jan-08-18 10:05	Jan-08-18 10:10		
BTEX by EPA 8021B	Extracted:	Jan-15-18 15:00	Jan-15-18 15:00	Jan-15-18 15:00	Jan-15-18 15:00		
	Analyzed:	Jan-16-18 03:39	Jan-16-18 06:57	Jan-16-18 07:16	Jan-16-18 07:35		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199		
Toluene		<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199		
Ethylbenzene		<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199		
m,p-Xylenes		<0.00398 0.00398	<0.00402 0.00402	<0.00401 0.00401	<0.00398 0.00398		
o-Xylene		<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199		
Total Xylenes		<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199		
Total BTEX		<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199		
Chloride by EPA 300	Extracted:	Jan-09-18 15:40	Jan-09-18 15:40	Jan-09-18 15:40	Jan-09-18 15:40		
	Analyzed:	Jan-09-18 18:07	Jan-09-18 18:14	Jan-09-18 18:21	Jan-09-18 18:28		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		320 4.96	92.7 4.96	520 4.91	358 4.93		
TPH By SW8015 Mod	Extracted:	Jan-16-18 16:00	Jan-16-18 16:00	Jan-16-18 16:00	Jan-12-18 10:00		
	Analyzed:	Jan-16-18 23:17	Jan-17-18 00:25	Jan-17-18 00:47	Jan-13-18 05:49		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0		
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0		
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0		
Total TPH		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Holly Taylor
Project Manager

Analytical Report 572902
for
Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo
Covington A Federal 0002

22-JAN-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):
Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



22-JAN-18

Project Manager: **Ben Arguijo**
Trinity Oilfield Services & Rentals, LLC
PO BOX 2587
Hobbs, NM 88241

Reference: XENCO Report No(s): **572902**
Covington A Federal 0002
Project Address:

Ben Arguijo:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 572902. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 572902 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holly Taylor
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 572902



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Covington A Federal 0002

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-4-Wall @2'	S	01-08-18 09:55		572902-001
SP-5-Wall @2'	S	01-08-18 10:00		572902-002
SP-6-Wall @2'	S	01-08-18 10:05		572902-003
SP-7-Wall @2'	S	01-08-18 10:10		572902-004



CASE NARRATIVE

Client Name: *Trinity Oilfield Services & Rentals, LLC*

Project Name: *Covington A Federal 0002*

Project ID:
Work Order Number(s): 572902

Report Date: 22-JAN-18
Date Received: 01/08/2018

Sample receipt non conformances and comments:

1.001 1/22/18 Field codes changed per Ben Arguijo.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3038373 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3038391 TPH By SW8015 Mod

Lab Sample ID 572902-004 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Gasoline Range Hydrocarbons (GRO) recovered below QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 572902-004.

The Laboratory Control Sample for Gasoline Range Hydrocarbons (GRO) is within laboratory Control Limits, therefore the data was accepted.



Certificate of Analytical Results 572902



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-4-Wall @2'**

Matrix: Soil

Date Received: 01.08.18 16.26

Lab Sample Id: 572902-001

Date Collected: 01.08.18 09.55

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 01.09.18 15.40

Basis: Wet Weight

Seq Number: 3037884

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	320	4.96	mg/kg	01.09.18 18.07		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 01.16.18 16.00

Basis: Wet Weight

Seq Number: 3038511

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.16.18 23.17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.16.18 23.17	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.16.18 23.17	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.16.18 23.17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	85	%	70-135	01.16.18 23.17		
o-Terphenyl	84-15-1	81	%	70-135	01.16.18 23.17		



Certificate of Analytical Results 572902



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-4-Wall @2'**

Matrix: Soil

Date Received: 01.08.18 16.26

Lab Sample Id: 572902-001

Date Collected: 01.08.18 09.55

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.15.18 15.00

Basis: Wet Weight

Seq Number: 3038373

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.16.18 03.39	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.16.18 03.39	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.16.18 03.39	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.16.18 03.39	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.16.18 03.39	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.16.18 03.39	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.16.18 03.39	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	97	%	80-120	01.16.18 03.39		
4-Bromofluorobenzene	460-00-4	87	%	80-120	01.16.18 03.39		



Certificate of Analytical Results 572902



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-5-Wall @2'**

Matrix: Soil

Date Received: 01.08.18 16.26

Lab Sample Id: 572902-002

Date Collected: 01.08.18 10.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 01.09.18 15.40

Basis: Wet Weight

Seq Number: 3037884

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	92.7	4.96	mg/kg	01.09.18 18.14		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 01.16.18 16.00

Basis: Wet Weight

Seq Number: 3038511

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.17.18 00.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.17.18 00.25	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.17.18 00.25	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.17.18 00.25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	83	%	70-135	01.17.18 00.25		
o-Terphenyl	84-15-1	77	%	70-135	01.17.18 00.25		



Certificate of Analytical Results 572902



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-5-Wall @2'**

Matrix: Soil

Date Received: 01.08.18 16.26

Lab Sample Id: 572902-002

Date Collected: 01.08.18 10.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.15.18 15.00

Basis: Wet Weight

Seq Number: 3038373

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.16.18 06.57	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.16.18 06.57	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.16.18 06.57	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.16.18 06.57	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.16.18 06.57	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.16.18 06.57	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.16.18 06.57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	91	%	80-120	01.16.18 06.57		
1,4-Difluorobenzene	540-36-3	97	%	80-120	01.16.18 06.57		



Certificate of Analytical Results 572902



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-6-Wall @2'**

Matrix: Soil

Date Received: 01.08.18 16.26

Lab Sample Id: 572902-003

Date Collected: 01.08.18 10.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 01.09.18 15.40

Basis: Wet Weight

Seq Number: 3037884

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	520	4.91	mg/kg	01.09.18 18.21		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 01.16.18 16.00

Basis: Wet Weight

Seq Number: 3038511

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.17.18 00.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.17.18 00.47	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.17.18 00.47	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.17.18 00.47	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	86	%	70-135	01.17.18 00.47		
o-Terphenyl	84-15-1	83	%	70-135	01.17.18 00.47		



Certificate of Analytical Results 572902



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-6-Wall @2'**

Matrix: Soil

Date Received: 01.08.18 16.26

Lab Sample Id: 572902-003

Date Collected: 01.08.18 10.05

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.15.18 15.00

Basis: Wet Weight

Seq Number: 3038373

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.16.18 07.16	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.16.18 07.16	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.16.18 07.16	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.16.18 07.16	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.16.18 07.16	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.16.18 07.16	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.16.18 07.16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	89	%	80-120	01.16.18 07.16		
1,4-Difluorobenzene	540-36-3	99	%	80-120	01.16.18 07.16		



Certificate of Analytical Results 572902



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-7-Wall @2'**

Matrix: Soil

Date Received: 01.08.18 16.26

Lab Sample Id: 572902-004

Date Collected: 01.08.18 10.10

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: OJS

% Moisture:

Analyst: OJS

Date Prep: 01.09.18 15.40

Basis: Wet Weight

Seq Number: 3037884

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	358	4.93	mg/kg	01.09.18 18.28		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.12.18 10.00

Basis: Wet Weight

Seq Number: 3038391

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.13.18 05.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.13.18 05.49	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.13.18 05.49	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.13.18 05.49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	78	%	70-135	01.13.18 05.49		
o-Terphenyl	84-15-1	80	%	70-135	01.13.18 05.49		



Certificate of Analytical Results 572902



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-7-Wall @2'**

Matrix: Soil

Date Received: 01.08.18 16.26

Lab Sample Id: 572902-004

Date Collected: 01.08.18 10.10

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.15.18 15.00

Basis: Wet Weight

Seq Number: 3038373

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.16.18 07.35	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.16.18 07.35	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.16.18 07.35	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.16.18 07.35	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.16.18 07.35	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.16.18 07.35	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.16.18 07.35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	93	%	80-120	01.16.18 07.35		
1,4-Difluorobenzene	540-36-3	95	%	80-120	01.16.18 07.35		

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(432) 563-1800	(432) 563-1713
(602) 437-0330	

Trinity Oilfield Services & Rentals, LLC
Covington A Federal 0002

Analytical Method: Chloride by EPA 300

Seq Number: 3037884

MB Sample Id: 7637199-1-BLK

Matrix: Solid

LCS Sample Id: 7637199-1-BKS

Prep Method: E300P

Date Prep: 01.09.18

LCSD Sample Id: 7637199-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	248	99	250	100	90-110	1	20	mg/kg	01.09.18 17:32	

Analytical Method: Chloride by EPA 300

Seq Number: 3037884

Parent Sample Id: 572871-010

Matrix: Soil

MS Sample Id: 572871-010 S

Prep Method: E300P

Date Prep: 01.09.18

MSD Sample Id: 572871-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	973	250	1160	75	1140	67	90-110	2	20	mg/kg	01.09.18 17:53	X

Analytical Method: Chloride by EPA 300

Seq Number: 3037884

Parent Sample Id: 572901-006

Matrix: Soil

MS Sample Id: 572901-006 S

Prep Method: E300P

Date Prep: 01.09.18

MSD Sample Id: 572901-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	393	249	626	94	631	96	90-110	1	20	mg/kg	01.09.18 19:31	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3038391

MB Sample Id: 7637444-1-BLK

Matrix: Solid

LCS Sample Id: 7637444-1-BKS

Prep Method: TX1005P

Date Prep: 01.12.18

LCSD Sample Id: 7637444-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	1040	104	993	99	70-135	5	35	mg/kg	01.13.18 05:08	
Diesel Range Organics (DRO)	<15.0	1000	1040	104	1020	102	70-135	2	35	mg/kg	01.13.18 05:08	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	95		93		92		70-135	%	01.13.18 05:08
o-Terphenyl	100		115		112		70-135	%	01.13.18 05:08

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery $[D] = 100 * (C - A) / B$
 $RPD = 200 * | (C - E) / (C + E) |$
 $[D] = 100 * (C) / [B]$ LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD ResultMS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



QC Summary 572902

Trinity Oilfield Services & Rentals, LLC Covington A Federal 0002

Analytical Method: TPH By SW8015 Mod

Seq Number: 3038511

MB Sample Id: 7637574-1-BLK

Matrix: Solid

LCS Sample Id: 7637574-1-BKS

Prep Method: TX1005P

Date Prep: 01.16.18

LCSD Sample Id: 7637574-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	923	92	866	87	70-135	6	35	mg/kg	01.16.18 22:31	
Diesel Range Organics (DRO)	<15.0	1000	974	97	925	93	70-135	5	35	mg/kg	01.16.18 22:31	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane	93		91		89		70-135	%	01.16.18 22:31			
o-Terphenyl	100		89		89		70-135	%	01.16.18 22:31			

Analytical Method: TPH By SW8015 Mod

Seq Number: 3038391

Parent Sample Id: 572902-004

Matrix: Soil

MS Sample Id: 572902-004 S

Prep Method: TX1005P

Date Prep: 01.12.18

MSD Sample Id: 572902-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	687	69	703	70	70-135	2	35	mg/kg	01.13.18 06:09	X
Diesel Range Organics (DRO)	<15.0	1000	725	73	742	74	70-135	2	35	mg/kg	01.13.18 06:09	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane			79		81		70-135	%	01.13.18 06:09			
o-Terphenyl			87		79		70-135	%	01.13.18 06:09			

Analytical Method: TPH By SW8015 Mod

Seq Number: 3038511

Parent Sample Id: 572902-001

Matrix: Soil

MS Sample Id: 572902-001 S

Prep Method: TX1005P

Date Prep: 01.16.18

MSD Sample Id: 572902-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	998	836	84	837	84	70-135	0	35	mg/kg	01.16.18 23:40	
Diesel Range Organics (DRO)	<15.0	998	965	97	964	96	70-135	0	35	mg/kg	01.16.18 23:40	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane			85		83		70-135	%	01.16.18 23:40			
o-Terphenyl			72		77		70-135	%	01.16.18 23:40			

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Trinity Oilfield Services & Rentals, LLC
Covington A Federal 0002

Analytical Method: BTEX by EPA 8021B

Seq Number: 3038373

MB Sample Id: 7637512-1-BLK

Matrix: Solid

LCS Sample Id: 7637512-1-BKS

Prep Method: SW5030B

Date Prep: 01.15.18

LCSD Sample Id: 7637512-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.0906	91	0.0933	92	70-130	3	35	mg/kg	01.15.18 23:37	
Toluene	<0.00201	0.100	0.0869	87	0.0896	89	70-130	3	35	mg/kg	01.15.18 23:37	
Ethylbenzene	<0.00201	0.100	0.0832	83	0.0857	85	71-129	3	35	mg/kg	01.15.18 23:37	
m,p-Xylenes	<0.00402	0.201	0.166	83	0.171	85	70-135	3	35	mg/kg	01.15.18 23:37	
o-Xylene	<0.00201	0.100	0.0845	85	0.0869	86	71-133	3	35	mg/kg	01.15.18 23:37	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		103		107		80-120	%	01.15.18 23:37
4-Bromofluorobenzene	90		98		98		80-120	%	01.15.18 23:37

Analytical Method: BTEX by EPA 8021B

Seq Number: 3038373

Parent Sample Id: 573367-049

Matrix: Soil

MS Sample Id: 573367-049 S

Prep Method: SW5030B

Date Prep: 01.15.18

MSD Sample Id: 573367-049 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0748	75	0.0662	66	70-130	12	35	mg/kg	01.16.18 00:13	X
Toluene	<0.00199	0.0996	0.0683	69	0.0594	59	70-130	14	35	mg/kg	01.16.18 00:13	X
Ethylbenzene	<0.00199	0.0996	0.0583	59	0.0514	51	71-129	13	35	mg/kg	01.16.18 00:13	X
m,p-Xylenes	<0.00398	0.199	0.110	55	0.0985	49	70-135	11	35	mg/kg	01.16.18 00:13	X
o-Xylene	<0.00199	0.0996	0.0590	59	0.0520	52	71-133	13	35	mg/kg	01.16.18 00:13	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		101		80-120	%	01.16.18 00:13
4-Bromofluorobenzene	104		103		80-120	%	01.16.18 00:13

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery

$[D] = 100 * (C-A) / B$
 $RPD = 200 * | (C-E) / (C+E) |$
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



CHAIN OF CUSTODY RECORD

Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800
Proool-c

Page 1 of 1

LAB W.O #: 572902
Field billable Hrs :

* Container Type Codes

VA Vial Amber	ES Encore Sampler
VC Vial Clear	TS TerraCore Sampler
VP Vial Pre-preserved	AC Air Canister
GA Glass Amber	TB Tedlar Bag
GC Glass Clear	ZB Zip Lock Bag
PA Plastic Amber	PC Plastic Clear
Other	

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal
40ml, 125 ml, 250 ml, 500 ml, 1L, Other

** Preservative Type Codes

A. None	E. HCL	I. Ice	
B. HNO ₃	F. MeOH	J. MCAA	C.
H ₂ SO ₄	G. Na ₂ S ₂ O ₃	K. ZnAc&NaOH	
D. NaOH	H. NaHSO ₄	L. Asbc Acid&NaOH	
O.			

^ Matrix Type Codes

GW Ground Water	S Soil/Sediment/Solid
WW Waste Water	W Wipe
DW Drinking Water	A Air
SW Surface Water	O Oil
OW Ocean/Sea Water	T Tissue
PL Product-Liquid	U Urine
PS Product-Solid	B Blood
SL Sludge	
Other	

REMARKS

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

Company:	Trinity Oilfield Services & Rentals, LLC	Phone:	(575)390-7208
Address:	P.O. Box 2587	Fax:	
City:	Hobbs	State:	NM
		Zip:	88241
PM/Attn:	Ben J. Arguijo	Email:	wade.dittrich@oxy.com & ben@trinityoilfieldservices.com
Project ID:	Covington A Federal 0002	PO#:	
Invoice To:	Oxy - Wade Dittrich (575)390-2828	Quote #:	

Sampler Name:	Tristan Payne	Circle One Event:	Daily	Weekly	Monthly	Quarterly
		Semi-Annual	Annual	N/A		

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered	Integrity OK (Y/N)	Total # of containers	Example Volatiles by 8260	TPH	BTEX	Chloride	Hold Sample (CALL) on Highest TPH Only
								# Cont	Lab Only:			
1	SP-4	1/8/18	0955	S			1		X			
2	SP-5	1/8/18	1000	S			1		X			
3	SP-6	1/8/18	1005	S			1		X			
4	SP-7	1/8/18	1010	S			1		X			
5												
6												
7												
8												
9												
0												

Reg. Program / Clean-up Std	STATE for Certs & Regs	QA/QC Level & Certification	EDDs	COC & Labels	Coolers Temp °C	Lab Use Only	YES NO N/A
CTLs TRRP DW NPDES LPST DryCln Other:	FL TX GA NC SC NJ PA OK LA AL NM Other:	1 2 3 4 CLP AFCEE QAPP NELAC DoD-ELAP Other:	ADaPT SEDD ERPIMS XLS Other:	Match Incomplete Absent Unclear	1 2 3 -0.2	Non-Conformances found?	
Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1	Trinity	1-8-18	1625	Fel Gonzalez	Mail Service	1-8-18	4:26
2						1/9/18	10:40
3							
4							

B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-427-0220

FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full

Temp: 2.1 IR ID:R-8
CF:(0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 1.9

ays, and all past due amounts



XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In



Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 01/08/2018 04:26:00 PM

Work Order #: 572902

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	- .2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Connie Hernandez

Date: 01/09/2018

Checklist reviewed by:

Holly Taylor

Date: 01/09/2018



Certificate of Analysis Summary 574161

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Covington A Federal 2

Project Id: Covington A Federal 2

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Sat Jan-20-18 05:20 pm

Report Date: 01-FEB-18

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	574161-001	574161-002	574161-003	574161-004	574161-005	574161-006
	Field Id:	SP-8 Wall @ 3'	SP-9 Wall @ 3'	SP-10 Wall @ 3'	SP-11 Wall @ 3'	SP-12 Wall @ 3'	SP-13 @ 1'
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Jan-12-18 14:10	Jan-12-18 14:35	Jan-12-18 16:00	Jan-12-18 16:17	Jan-12-18 16:24	Jan-16-18 13:00
BTEX by EPA 8021B	Extracted:	Jan-25-18 13:00	Jan-25-18 13:00	Jan-25-18 13:00	Jan-25-18 13:00	Jan-25-18 13:00	Jan-25-18 13:00
	Analyzed:	Jan-26-18 09:56	Jan-26-18 12:38	Jan-26-18 13:05	Jan-26-18 13:32	Jan-26-18 14:01	Jan-26-18 14:28
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.0187 0.0187	<0.0199 0.0199	<0.0195 0.0195	<0.0199 0.0199	<0.0196 0.0196	<0.0180 0.0180
Toluene		<0.0187 0.0187	<0.0199 0.0199	<0.0195 0.0195	<0.0199 0.0199	<0.0196 0.0196	<0.0180 0.0180
Ethylbenzene		<0.0187 0.0187	<0.0199 0.0199	<0.0195 0.0195	<0.0199 0.0199	<0.0196 0.0196	<0.0180 0.0180
m,p-Xylenes		<0.0375 0.0375	<0.0398 0.0398	<0.0389 0.0389	<0.0398 0.0398	<0.0391 0.0391	<0.0360 0.0360
o-Xylene		<0.0187 0.0187	<0.0199 0.0199	<0.0195 0.0195	<0.0199 0.0199	<0.0196 0.0196	<0.0180 0.0180
Total Xylenes		<0.0187 0.0187	<0.0199 0.0199	<0.0195 0.0195	<0.0199 0.0199	<0.0196 0.0196	<0.0180 0.0180
Total BTEX		<0.0187 0.0187	<0.0199 0.0199	<0.0195 0.0195	<0.0199 0.0199	<0.0196 0.0196	<0.0180 0.0180
Chloride by EPA 300	Extracted:	Jan-23-18 15:30	Jan-23-18 15:30	Jan-23-18 15:30	Jan-23-18 15:30	Jan-23-18 15:30	Jan-23-18 08:15
	Analyzed:	Jan-24-18 15:01	Jan-24-18 15:39	Jan-24-18 15:51	Jan-24-18 16:16	Jan-24-18 16:28	Jan-23-18 11:15
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		<25.0 25.0	149 25.0	486 D 125	135 25.0	492 25.0	593 D 125
DRO-ORO By SW8015 Mod	Extracted:	Jan-23-18 12:45	Jan-23-18 12:45	Jan-23-18 12:45	Jan-23-18 12:45	Jan-23-18 12:45	Jan-25-18 12:30
	Analyzed:	Jan-23-18 14:07	Jan-23-18 15:51	Jan-23-18 16:26	Jan-23-18 17:01	Jan-23-18 17:36	Jan-25-18 15:32
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Diesel Range Organics (DRO)		<25.0 25.0	<25.0 25.0	<25.0 25.0	<25.0 25.0	<25.0 25.0	<25.0 25.0
Oil Range Hydrocarbons (ORO)		<25.0 25.0	<25.0 25.0	<25.0 25.0	<25.0 25.0	<25.0 25.0	<25.0 25.0
TPH GRO by EPA 8015 Mod.	Extracted:	Jan-25-18 13:00	Jan-25-18 13:00	Jan-25-18 13:00	Jan-25-18 13:00	Jan-25-18 13:00	Jan-25-18 13:00
	Analyzed:	Jan-26-18 09:56	Jan-26-18 12:38	Jan-26-18 13:05	Jan-26-18 13:32	Jan-26-18 14:01	Jan-26-18 14:28
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
TPH-GRO		<3.75 3.75	<3.98 3.98	<3.89 3.89	<3.98 3.98	<3.91 3.91	<3.60 3.60

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Holly Taylor
Project Manager



Certificate of Analysis Summary 574161

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Covington A Federal 2

Project Id: Covington A Federal 2

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Sat Jan-20-18 05:20 pm

Report Date: 01-FEB-18

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	574161-008	574161-009	574161-010	574161-011	574161-012	574161-013
	Field Id:	SP-14 @ 1'	SP-15 Wall @ 1'	SP-16 Wall @ 1'	SP-17 Wall @ 1'	SP-17 Wallb @ 1'	SP-18 Wall @ 1'
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Jan-16-18 13:05	Jan-17-18 14:40	Jan-17-18 14:47	Jan-17-18 14:53	Jan-17-18 15:11	Jan-17-18 15:30
BTEX by EPA 8021B	Extracted:	Jan-25-18 13:00	Jan-25-18 13:00	Jan-25-18 13:00	Jan-25-18 13:00	Jan-25-18 13:00	Jan-25-18 13:00
	Analyzed:	Jan-26-18 14:56	Jan-26-18 15:23	Jan-26-18 15:50	Jan-26-18 18:31	Jan-26-18 18:58	Jan-26-18 19:26
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.0197 0.0197	<0.0196 0.0196	<0.0192 0.0192	<0.0189 0.0189	<0.0174 0.0174	<0.0184 0.0184
Toluene		<0.0197 0.0197	<0.0196 0.0196	<0.0192 0.0192	<0.0189 0.0189	<0.0174 0.0174	<0.0184 0.0184
Ethylbenzene		<0.0197 0.0197	<0.0196 0.0196	<0.0192 0.0192	<0.0189 0.0189	<0.0174 0.0174	<0.0184 0.0184
m,p-Xylenes		<0.0394 0.0394	<0.0392 0.0392	<0.0383 0.0383	<0.0379 0.0379	<0.0348 0.0348	<0.0368 0.0368
o-Xylene		<0.0197 0.0197	<0.0196 0.0196	<0.0192 0.0192	<0.0189 0.0189	<0.0174 0.0174	<0.0184 0.0184
Total Xylenes		<0.0197 0.0197	<0.0196 0.0196	<0.0192 0.0192	<0.0189 0.0189	<0.0174 0.0174	<0.0184 0.0184
Total BTEX		<0.0197 0.0197	<0.0196 0.0196	<0.0192 0.0192	<0.0189 0.0189	<0.0174 0.0174	<0.0184 0.0184
Chloride by EPA 300	Extracted:	Jan-23-18 15:30	Jan-23-18 15:30	Jan-23-18 15:30	Jan-23-18 08:15	Jan-23-18 15:30	Jan-23-18 15:30
	Analyzed:	Jan-24-18 17:06	Jan-24-18 17:30	Jan-24-18 18:20	Jan-23-18 11:40	Jan-24-18 18:45	Jan-24-18 19:10
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		90.7 25.0	464 25.0	489 D 125	691 D 125	410 25.0	172 25.0
DRO-ORO By SW8015 Mod	Extracted:	Jan-23-18 12:45	Jan-23-18 12:45	Jan-23-18 12:45	Jan-23-18 12:45	Jan-25-18 12:30	Jan-23-18 12:45
	Analyzed:	Jan-23-18 18:45	Jan-23-18 19:20	Jan-23-18 19:55	Jan-23-18 20:30	Jan-25-18 17:18	Jan-23-18 21:41
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Diesel Range Organics (DRO)		<25.0 25.0	<25.0 25.0	<25.0 25.0	<25.0 25.0	<25.0 25.0	<25.0 25.0
Oil Range Hydrocarbons (ORO)		<25.0 25.0	<25.0 25.0	<25.0 25.0	<25.0 25.0	<25.0 25.0	<25.0 25.0
TPH GRO by EPA 8015 Mod.	Extracted:	Jan-25-18 13:00	Jan-25-18 13:00	Jan-25-18 13:00	Jan-25-18 13:00	Jan-25-18 13:00	Jan-25-18 13:00
	Analyzed:	Jan-26-18 14:56	Jan-26-18 15:23	Jan-26-18 15:50	Jan-26-18 18:31	Jan-26-18 18:58	Jan-26-18 19:26
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
TPH-GRO		<3.94 3.94	<3.92 3.92	<3.83 3.83	<3.79 3.79	<3.48 3.48	<3.68 3.68

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Holly Taylor
Project Manager



Certificate of Analysis Summary 574161

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Covington A Federal 2

Project Id: Covington A Federal 2

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Sat Jan-20-18 05:20 pm

Report Date: 01-FEB-18

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	574161-014	574161-015				
	Field Id:	SP-19 Wall @ 1'	SP-20 Wall @ 1'				
	Depth:						
	Matrix:	SOIL	SOIL				
	Sampled:	Jan-17-18 15:32	Jan-17-18 15:38				
BTEX by EPA 8021B	Extracted:	Jan-25-18 13:00	Jan-25-18 13:00				
	Analyzed:	Jan-26-18 19:52	Jan-26-18 20:20				
	Units/RL:	mg/kg RL	mg/kg RL				
Benzene		<0.0183 0.0183	<0.0175 0.0175				
Toluene		<0.0183 0.0183	<0.0175 0.0175				
Ethylbenzene		<0.0183 0.0183	<0.0175 0.0175				
m,p-Xylenes		<0.0366 0.0366	<0.0350 0.0350				
o-Xylene		<0.0183 0.0183	<0.0175 0.0175				
Total Xylenes		<0.0183 0.0183	<0.0175 0.0175				
Total BTEX		<0.0183 0.0183	<0.0175 0.0175				
Chloride by EPA 300	Extracted:	Jan-23-18 15:30	Jan-23-18 15:30				
	Analyzed:	Jan-24-18 19:22	Jan-24-18 19:35				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		157 25.0	314 25.0				
DRO-ORO By SW8015 Mod	Extracted:	Jan-23-18 12:45	Jan-23-18 12:45				
	Analyzed:	Jan-23-18 22:16	Jan-23-18 22:52				
	Units/RL:	mg/kg RL	mg/kg RL				
Diesel Range Organics (DRO)		<25.0 25.0	<25.0 25.0				
Oil Range Hydrocarbons (ORO)		<25.0 25.0	<25.0 25.0				
TPH GRO by EPA 8015 Mod.	Extracted:	Jan-25-18 13:00	Jan-25-18 13:00				
	Analyzed:	Jan-26-18 19:52	Jan-26-18 20:20				
	Units/RL:	mg/kg RL	mg/kg RL				
TPH-GRO		<3.66 3.66	<3.50 3.50				

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Holly Taylor
Project Manager

Analytical Report 574161
for
Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo

Covington A Federal 2

Covington A Federal 2

01-FEB-18

Collected By: Client



6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):

Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)

Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



01-FEB-18

Project Manager: **Ben Arguijo**
Trinity Oilfield Services & Rentals, LLC
PO BOX 2587
Hobbs, NM 88241

Reference: XENCO Report No(s): **574161**
Covington A Federal 2
Project Address:

Ben Arguijo:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 574161. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 574161 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Holly Taylor'. The signature is written in a cursive, flowing style.

Holly Taylor
Project Manager

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Sample Cross Reference 574161

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Covington A Federal 2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-8 Wall @ 3'	S	01-12-18 14:10		574161-001
SP-9 Wall @ 3'	S	01-12-18 14:35		574161-002
SP-10 Wall @ 3'	S	01-12-18 16:00		574161-003
SP-11 Wall @ 3'	S	01-12-18 16:17		574161-004
SP-12 Wall @ 3'	S	01-12-18 16:24		574161-005
SP-13 @ 1'	S	01-16-18 13:00		574161-006
SP-14 @ 1'	S	01-16-18 13:05		574161-008
SP-15 Wall @ 1'	S	01-17-18 14:40		574161-009
SP-16 Wall @ 1'	S	01-17-18 14:47		574161-010
SP-17 Wall @ 1'	S	01-17-18 14:53		574161-011
SP-17 Wall b @ 1'	S	01-17-18 15:11		574161-012
SP-18 Wall @ 1'	S	01-17-18 15:30		574161-013
SP-19 Wall @ 1'	S	01-17-18 15:32		574161-014
SP-20 Wall @ 1'	S	01-17-18 15:38		574161-015
SP-13 Wall @ 2'	S	01-16-18 14:42		Not Analyzed



CASE NARRATIVE

Client Name: *Trinity Oilfield Services & Rentals, LLC*

Project Name: *Covington A Federal 2*

Project ID: *Covington A Federal 2*
Work Order Number(s): *574161*

Report Date: *01-FEB-18*
Date Received: *01/20/2018*

Sample receipt non conformances and comments:

1.001 2/1/18 Revised to change method name per Ben Arguijo.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3039518 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analytical Results 574161

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: **SP-8 Wall @ 3'**

Matrix: Soil

Date Received: 01.20.18 17.20

Lab Sample Id: 574161-001

Date Collected: 01.12.18 14.10

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: RNL

% Moisture:

Analyst: RNL

Date Prep: 01.23.18 15.30

Basis: Wet Weight

Seq Number: 3039175

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<25.0	25.0	mg/kg	01.24.18 15.01	U	1

Analytical Method: DRO-ORO By SW8015 Mod

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: PGM

Date Prep: 01.23.18 12.45

Basis: Wet Weight

Seq Number: 3039072

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	01.23.18 14.07	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<25.0	25.0	mg/kg	01.23.18 14.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	103	%	65-144	01.23.18 14.07	
n-Triacontane	638-68-6	67	%	46-152	01.23.18 14.07	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.25.18 13.00

Basis: Wet Weight

Seq Number: 3039518

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0187	0.0187	mg/kg	01.26.18 09.56	U	1
Toluene	108-88-3	<0.0187	0.0187	mg/kg	01.26.18 09.56	U	1
Ethylbenzene	100-41-4	<0.0187	0.0187	mg/kg	01.26.18 09.56	U	1
m,p-Xylenes	179601-23-1	<0.0375	0.0375	mg/kg	01.26.18 09.56	U	1
o-Xylene	95-47-6	<0.0187	0.0187	mg/kg	01.26.18 09.56	U	1
Total Xylenes	1330-20-7	<0.0187	0.0187	mg/kg	01.26.18 09.56	U	1
Total BTEX		<0.0187	0.0187	mg/kg	01.26.18 09.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	68-120	01.26.18 09.56	
a,a,a-Trifluorotoluene	98-08-8	117	%	71-121	01.26.18 09.56	



Certificate of Analytical Results 574161

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: **SP-8 Wall @ 3'**

Matrix: Soil

Date Received: 01.20.18 17.20

Lab Sample Id: 574161-001

Date Collected: 01.12.18 14.10

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.25.18 13.00

Basis: Wet Weight

Seq Number: 3039520

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.75	3.75	mg/kg	01.26.18 09.56	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	101	%	76-123	01.26.18 09.56		
a,a,a-Trifluorotoluene	98-08-8	113	%	69-120	01.26.18 09.56		



Certificate of Analytical Results 574161

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: **SP-9 Wall @ 3'**

Matrix: Soil

Date Received: 01.20.18 17.20

Lab Sample Id: 574161-002

Date Collected: 01.12.18 14.35

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: RNL

% Moisture:

Analyst: RNL

Date Prep: 01.23.18 15.30

Basis: Wet Weight

Seq Number: 3039175

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	149	25.0	mg/kg	01.24.18 15.39		1

Analytical Method: DRO-ORO By SW8015 Mod

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: PGM

Date Prep: 01.23.18 12.45

Basis: Wet Weight

Seq Number: 3039072

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	01.23.18 15.51	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<25.0	25.0	mg/kg	01.23.18 15.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	105	%	65-144	01.23.18 15.51	
n-Triacontane	638-68-6	68	%	46-152	01.23.18 15.51	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.25.18 13.00

Basis: Wet Weight

Seq Number: 3039518

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0199	0.0199	mg/kg	01.26.18 12.38	U	1
Toluene	108-88-3	<0.0199	0.0199	mg/kg	01.26.18 12.38	U	1
Ethylbenzene	100-41-4	<0.0199	0.0199	mg/kg	01.26.18 12.38	U	1
m,p-Xylenes	179601-23-1	<0.0398	0.0398	mg/kg	01.26.18 12.38	U	1
o-Xylene	95-47-6	<0.0199	0.0199	mg/kg	01.26.18 12.38	U	1
Total Xylenes	1330-20-7	<0.0199	0.0199	mg/kg	01.26.18 12.38	U	1
Total BTEX		<0.0199	0.0199	mg/kg	01.26.18 12.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	68-120	01.26.18 12.38	
a,a,a-Trifluorotoluene	98-08-8	113	%	71-121	01.26.18 12.38	



Certificate of Analytical Results 574161

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: **SP-9 Wall @ 3'**

Matrix: Soil

Date Received: 01.20.18 17.20

Lab Sample Id: 574161-002

Date Collected: 01.12.18 14.35

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.25.18 13.00

Basis: Wet Weight

Seq Number: 3039520

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.98	3.98	mg/kg	01.26.18 12.38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	99	%	76-123	01.26.18 12.38		
a,a,a-Trifluorotoluene	98-08-8	109	%	69-120	01.26.18 12.38		



Certificate of Analytical Results 574161

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: **SP-10 Wall @ 3'**

Matrix: Soil

Date Received: 01.20.18 17.20

Lab Sample Id: 574161-003

Date Collected: 01.12.18 16.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: RNL

% Moisture:

Analyst: RNL

Date Prep: 01.23.18 15.30

Basis: Wet Weight

Seq Number: 3039175

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	486	125	mg/kg	01.24.18 16.04	D	5

Analytical Method: DRO-ORO By SW8015 Mod

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: PGM

Date Prep: 01.23.18 12.45

Basis: Wet Weight

Seq Number: 3039072

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	01.23.18 16.26	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<25.0	25.0	mg/kg	01.23.18 16.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	98	%	65-144	01.23.18 16.26	
n-Triacontane	638-68-6	66	%	46-152	01.23.18 16.26	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.25.18 13.00

Basis: Wet Weight

Seq Number: 3039518

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0195	0.0195	mg/kg	01.26.18 13.05	U	1
Toluene	108-88-3	<0.0195	0.0195	mg/kg	01.26.18 13.05	U	1
Ethylbenzene	100-41-4	<0.0195	0.0195	mg/kg	01.26.18 13.05	U	1
m,p-Xylenes	179601-23-1	<0.0389	0.0389	mg/kg	01.26.18 13.05	U	1
o-Xylene	95-47-6	<0.0195	0.0195	mg/kg	01.26.18 13.05	U	1
Total Xylenes	1330-20-7	<0.0195	0.0195	mg/kg	01.26.18 13.05	U	1
Total BTEX		<0.0195	0.0195	mg/kg	01.26.18 13.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	68-120	01.26.18 13.05	
a,a,a-Trifluorotoluene	98-08-8	114	%	71-121	01.26.18 13.05	



Certificate of Analytical Results 574161

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: **SP-10 Wall @ 3'**

Matrix: Soil

Date Received: 01.20.18 17.20

Lab Sample Id: 574161-003

Date Collected: 01.12.18 16.00

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.25.18 13.00

Basis: Wet Weight

Seq Number: 3039520

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.89	3.89	mg/kg	01.26.18 13.05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	100	%	76-123	01.26.18 13.05		
a,a,a-Trifluorotoluene	98-08-8	110	%	69-120	01.26.18 13.05		



Certificate of Analytical Results 574161

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: SP-11 Wall @ 3'

Matrix: Soil

Date Received: 01.20.18 17.20

Lab Sample Id: 574161-004

Date Collected: 01.12.18 16.17

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: RNL

% Moisture:

Analyst: RNL

Date Prep: 01.23.18 15.30

Basis: Wet Weight

Seq Number: 3039175

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	135	25.0	mg/kg	01.24.18 16.16		1

Analytical Method: DRO-ORO By SW8015 Mod

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: PGM

Date Prep: 01.23.18 12.45

Basis: Wet Weight

Seq Number: 3039072

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	01.23.18 17.01	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<25.0	25.0	mg/kg	01.23.18 17.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	96	%	65-144	01.23.18 17.01	
n-Triacontane	638-68-6	62	%	46-152	01.23.18 17.01	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.25.18 13.00

Basis: Wet Weight

Seq Number: 3039518

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0199	0.0199	mg/kg	01.26.18 13.32	U	1
Toluene	108-88-3	<0.0199	0.0199	mg/kg	01.26.18 13.32	U	1
Ethylbenzene	100-41-4	<0.0199	0.0199	mg/kg	01.26.18 13.32	U	1
m,p-Xylenes	179601-23-1	<0.0398	0.0398	mg/kg	01.26.18 13.32	U	1
o-Xylene	95-47-6	<0.0199	0.0199	mg/kg	01.26.18 13.32	U	1
Total Xylenes	1330-20-7	<0.0199	0.0199	mg/kg	01.26.18 13.32	U	1
Total BTEX		<0.0199	0.0199	mg/kg	01.26.18 13.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	68-120	01.26.18 13.32	
a,a,a-Trifluorotoluene	98-08-8	116	%	71-121	01.26.18 13.32	



Certificate of Analytical Results 574161

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: **SP-11 Wall @ 3'**

Matrix: Soil

Date Received: 01.20.18 17.20

Lab Sample Id: 574161-004

Date Collected: 01.12.18 16.17

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.25.18 13.00

Basis: Wet Weight

Seq Number: 3039520

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.98	3.98	mg/kg	01.26.18 13.32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	101	%	76-123	01.26.18 13.32		
a,a,a-Trifluorotoluene	98-08-8	111	%	69-120	01.26.18 13.32		



Certificate of Analytical Results 574161

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: SP-12 Wall @ 3'

Matrix: Soil

Date Received: 01.20.18 17.20

Lab Sample Id: 574161-005

Date Collected: 01.12.18 16.24

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: RNL

% Moisture:

Analyst: RNL

Date Prep: 01.23.18 15.30

Basis: Wet Weight

Seq Number: 3039175

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	492	25.0	mg/kg	01.24.18 16.28		1

Analytical Method: DRO-ORO By SW8015 Mod

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: PGM

Date Prep: 01.23.18 12.45

Basis: Wet Weight

Seq Number: 3039072

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	01.23.18 17.36	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<25.0	25.0	mg/kg	01.23.18 17.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	98	%	65-144	01.23.18 17.36	
n-Triacontane	638-68-6	65	%	46-152	01.23.18 17.36	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.25.18 13.00

Basis: Wet Weight

Seq Number: 3039518

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0196	0.0196	mg/kg	01.26.18 14.01	U	1
Toluene	108-88-3	<0.0196	0.0196	mg/kg	01.26.18 14.01	U	1
Ethylbenzene	100-41-4	<0.0196	0.0196	mg/kg	01.26.18 14.01	U	1
m,p-Xylenes	179601-23-1	<0.0391	0.0391	mg/kg	01.26.18 14.01	U	1
o-Xylene	95-47-6	<0.0196	0.0196	mg/kg	01.26.18 14.01	U	1
Total Xylenes	1330-20-7	<0.0196	0.0196	mg/kg	01.26.18 14.01	U	1
Total BTEX		<0.0196	0.0196	mg/kg	01.26.18 14.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	68-120	01.26.18 14.01	
a,a,a-Trifluorotoluene	98-08-8	114	%	71-121	01.26.18 14.01	



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: **SP-12 Wall @ 3'**

Matrix: Soil

Date Received: 01.20.18 17.20

Lab Sample Id: 574161-005

Date Collected: 01.12.18 16.24

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.25.18 13.00

Basis: Wet Weight

Seq Number: 3039520

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.91	3.91	mg/kg	01.26.18 14.01	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	102	%	76-123	01.26.18 14.01		
a,a,a-Trifluorotoluene	98-08-8	111	%	69-120	01.26.18 14.01		



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: SP-13 Wall @ 1'

Matrix: Soil

Date Received: 01.20.18 17.20

Lab Sample Id: 574161-006

Date Collected: 01.16.18 13.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: RNL

% Moisture:

Analyst: RNL

Date Prep: 01.23.18 08.15

Basis: Wet Weight

Seq Number: 3039003

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	593	125	mg/kg	01.23.18 11.28	D	5

Analytical Method: DRO-ORO By SW8015 Mod

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: PGM

Date Prep: 01.25.18 12.30

Basis: Wet Weight

Seq Number: 3039311

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	01.25.18 15.32	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<25.0	25.0	mg/kg	01.25.18 15.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	122	%	65-144	01.25.18 15.32	
n-Triacontane	638-68-6	81	%	46-152	01.25.18 15.32	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.25.18 13.00

Basis: Wet Weight

Seq Number: 3039518

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0180	0.0180	mg/kg	01.26.18 14.28	U	1
Toluene	108-88-3	<0.0180	0.0180	mg/kg	01.26.18 14.28	U	1
Ethylbenzene	100-41-4	<0.0180	0.0180	mg/kg	01.26.18 14.28	U	1
m,p-Xylenes	179601-23-1	<0.0360	0.0360	mg/kg	01.26.18 14.28	U	1
o-Xylene	95-47-6	<0.0180	0.0180	mg/kg	01.26.18 14.28	U	1
Total Xylenes	1330-20-7	<0.0180	0.0180	mg/kg	01.26.18 14.28	U	1
Total BTEX		<0.0180	0.0180	mg/kg	01.26.18 14.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	68-120	01.26.18 14.28	
a,a,a-Trifluorotoluene	98-08-8	115	%	71-121	01.26.18 14.28	



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: **SP-13 Wall @ 1'**

Matrix: Soil

Date Received: 01.20.18 17.20

Lab Sample Id: 574161-006

Date Collected: 01.16.18 13.00

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.25.18 13.00

Basis: Wet Weight

Seq Number: 3039520

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.60	3.60	mg/kg	01.26.18 14.28	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	100	%	76-123	01.26.18 14.28		
a,a,a-Trifluorotoluene	98-08-8	113	%	69-120	01.26.18 14.28		



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: **SP-14 Wall @ 1'**

Matrix: Soil

Date Received: 01.20.18 17.20

Lab Sample Id: 574161-008

Date Collected: 01.16.18 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: RNL

% Moisture:

Analyst: RNL

Date Prep: 01.23.18 15.30

Basis: Wet Weight

Seq Number: 3039175

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	90.7	25.0	mg/kg	01.24.18 17.06		1

Analytical Method: DRO-ORO By SW8015 Mod

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: PGM

Date Prep: 01.23.18 12.45

Basis: Wet Weight

Seq Number: 3039072

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	01.23.18 18.45	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<25.0	25.0	mg/kg	01.23.18 18.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	95	%	65-144	01.23.18 18.45	
n-Triacontane	638-68-6	65	%	46-152	01.23.18 18.45	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.25.18 13.00

Basis: Wet Weight

Seq Number: 3039518

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0197	0.0197	mg/kg	01.26.18 14.56	U	1
Toluene	108-88-3	<0.0197	0.0197	mg/kg	01.26.18 14.56	U	1
Ethylbenzene	100-41-4	<0.0197	0.0197	mg/kg	01.26.18 14.56	U	1
m,p-Xylenes	179601-23-1	<0.0394	0.0394	mg/kg	01.26.18 14.56	U	1
o-Xylene	95-47-6	<0.0197	0.0197	mg/kg	01.26.18 14.56	U	1
Total Xylenes	1330-20-7	<0.0197	0.0197	mg/kg	01.26.18 14.56	U	1
Total BTEX		<0.0197	0.0197	mg/kg	01.26.18 14.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	68-120	01.26.18 14.56	
a,a,a-Trifluorotoluene	98-08-8	117	%	71-121	01.26.18 14.56	



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: **SP-14 Wall @ 1'**

Matrix: Soil

Date Received: 01.20.18 17.20

Lab Sample Id: 574161-008

Date Collected: 01.16.18 13.05

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.25.18 13.00

Basis: Wet Weight

Seq Number: 3039520

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.94	3.94	mg/kg	01.26.18 14.56	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	99	%	76-123	01.26.18 14.56		
a,a,a-Trifluorotoluene	98-08-8	113	%	69-120	01.26.18 14.56		



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: SP-15 Wall @ 1'

Matrix: Soil

Date Received: 01.20.18 17.20

Lab Sample Id: 574161-009

Date Collected: 01.17.18 14.40

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: RNL

% Moisture:

Analyst: RNL

Date Prep: 01.23.18 15.30

Basis: Wet Weight

Seq Number: 3039175

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	464	25.0	mg/kg	01.24.18 17.30		1

Analytical Method: DRO-ORO By SW8015 Mod

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: PGM

Date Prep: 01.23.18 12.45

Basis: Wet Weight

Seq Number: 3039072

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	01.23.18 19.20	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<25.0	25.0	mg/kg	01.23.18 19.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	95	%	65-144	01.23.18 19.20	
n-Triacontane	638-68-6	61	%	46-152	01.23.18 19.20	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.25.18 13.00

Basis: Wet Weight

Seq Number: 3039518

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0196	0.0196	mg/kg	01.26.18 15.23	U	1
Toluene	108-88-3	<0.0196	0.0196	mg/kg	01.26.18 15.23	U	1
Ethylbenzene	100-41-4	<0.0196	0.0196	mg/kg	01.26.18 15.23	U	1
m,p-Xylenes	179601-23-1	<0.0392	0.0392	mg/kg	01.26.18 15.23	U	1
o-Xylene	95-47-6	<0.0196	0.0196	mg/kg	01.26.18 15.23	U	1
Total Xylenes	1330-20-7	<0.0196	0.0196	mg/kg	01.26.18 15.23	U	1
Total BTEX		<0.0196	0.0196	mg/kg	01.26.18 15.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	68-120	01.26.18 15.23	
a,a,a-Trifluorotoluene	98-08-8	114	%	71-121	01.26.18 15.23	



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: **SP-15 Wall @ 1'**

Matrix: Soil

Date Received: 01.20.18 17.20

Lab Sample Id: 574161-009

Date Collected: 01.17.18 14.40

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.25.18 13.00

Basis: Wet Weight

Seq Number: 3039520

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.92	3.92	mg/kg	01.26.18 15.23	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	99	%	76-123	01.26.18 15.23		
a,a,a-Trifluorotoluene	98-08-8	113	%	69-120	01.26.18 15.23		



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: **SP-16 Wall @ 1'**

Matrix: Soil

Date Received: 01.20.18 17.20

Lab Sample Id: 574161-010

Date Collected: 01.17.18 14.47

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: RNL

% Moisture:

Analyst: RNL

Date Prep: 01.23.18 15.30

Basis: Wet Weight

Seq Number: 3039175

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	489	125	mg/kg	01.24.18 18.33	D	5

Analytical Method: DRO-ORO By SW8015 Mod

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: PGM

Date Prep: 01.23.18 12.45

Basis: Wet Weight

Seq Number: 3039072

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	01.23.18 19.55	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<25.0	25.0	mg/kg	01.23.18 19.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	96	%	65-144	01.23.18 19.55	
n-Triacontane	638-68-6	61	%	46-152	01.23.18 19.55	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.25.18 13.00

Basis: Wet Weight

Seq Number: 3039518

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0192	0.0192	mg/kg	01.26.18 15.50	U	1
Toluene	108-88-3	<0.0192	0.0192	mg/kg	01.26.18 15.50	U	1
Ethylbenzene	100-41-4	<0.0192	0.0192	mg/kg	01.26.18 15.50	U	1
m,p-Xylenes	179601-23-1	<0.0383	0.0383	mg/kg	01.26.18 15.50	U	1
o-Xylene	95-47-6	<0.0192	0.0192	mg/kg	01.26.18 15.50	U	1
Total Xylenes	1330-20-7	<0.0192	0.0192	mg/kg	01.26.18 15.50	U	1
Total BTEX		<0.0192	0.0192	mg/kg	01.26.18 15.50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	68-120	01.26.18 15.50	
a,a,a-Trifluorotoluene	98-08-8	113	%	71-121	01.26.18 15.50	



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: **SP-16 Wall @ 1'**

Matrix: Soil

Date Received: 01.20.18 17.20

Lab Sample Id: 574161-010

Date Collected: 01.17.18 14.47

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.25.18 13.00

Basis: Wet Weight

Seq Number: 3039520

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.83	3.83	mg/kg	01.26.18 15.50	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	100	%	76-123	01.26.18 15.50		
a,a,a-Trifluorotoluene	98-08-8	111	%	69-120	01.26.18 15.50		



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Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: **SP-17 Wall @ 1'**

Matrix: Soil

Date Received: 01.20.18 17.20

Lab Sample Id: 574161-011

Date Collected: 01.17.18 14.53

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: RNL

% Moisture:

Analyst: RNL

Date Prep: 01.23.18 08.15

Basis: Wet Weight

Seq Number: 3039003

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	691	125	mg/kg	01.23.18 11.53	D	5

Analytical Method: DRO-ORO By SW8015 Mod

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: PGM

Date Prep: 01.23.18 12.45

Basis: Wet Weight

Seq Number: 3039072

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	01.23.18 20.30	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<25.0	25.0	mg/kg	01.23.18 20.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	95	%	65-144	01.23.18 20.30	
n-Triacontane	638-68-6	64	%	46-152	01.23.18 20.30	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.25.18 13.00

Basis: Wet Weight

Seq Number: 3039518

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0189	0.0189	mg/kg	01.26.18 18.31	U	1
Toluene	108-88-3	<0.0189	0.0189	mg/kg	01.26.18 18.31	U	1
Ethylbenzene	100-41-4	<0.0189	0.0189	mg/kg	01.26.18 18.31	U	1
m,p-Xylenes	179601-23-1	<0.0379	0.0379	mg/kg	01.26.18 18.31	U	1
o-Xylene	95-47-6	<0.0189	0.0189	mg/kg	01.26.18 18.31	U	1
Total Xylenes	1330-20-7	<0.0189	0.0189	mg/kg	01.26.18 18.31	U	1
Total BTEX		<0.0189	0.0189	mg/kg	01.26.18 18.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	68-120	01.26.18 18.31	
a,a,a-Trifluorotoluene	98-08-8	114	%	71-121	01.26.18 18.31	



Certificate of Analytical Results 574161

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: **SP-17 Wall @ 1'**

Matrix: Soil

Date Received: 01.20.18 17.20

Lab Sample Id: 574161-011

Date Collected: 01.17.18 14.53

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.25.18 13.00

Basis: Wet Weight

Seq Number: 3039520

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.79	3.79	mg/kg	01.26.18 18.31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	102	%	76-123	01.26.18 18.31		
a,a,a-Trifluorotoluene	98-08-8	111	%	69-120	01.26.18 18.31		



Certificate of Analytical Results 574161

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: **SP-17 Wall b @ 1'**

Matrix: Soil

Date Received: 01.20.18 17.20

Lab Sample Id: 574161-012

Date Collected: 01.17.18 15.11

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: RNL

% Moisture:

Analyst: RNL

Date Prep: 01.23.18 15.30

Basis: Wet Weight

Seq Number: 3039175

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	410	25.0	mg/kg	01.24.18 18.45		1

Analytical Method: DRO-ORO By SW8015 Mod

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: PGM

Date Prep: 01.25.18 12.30

Basis: Wet Weight

Seq Number: 3039311

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	01.25.18 17.18	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<25.0	25.0	mg/kg	01.25.18 17.18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	123	%	65-144	01.25.18 17.18	
n-Triacontane	638-68-6	86	%	46-152	01.25.18 17.18	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.25.18 13.00

Basis: Wet Weight

Seq Number: 3039518

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0174	0.0174	mg/kg	01.26.18 18.58	U	1
Toluene	108-88-3	<0.0174	0.0174	mg/kg	01.26.18 18.58	U	1
Ethylbenzene	100-41-4	<0.0174	0.0174	mg/kg	01.26.18 18.58	U	1
m,p-Xylenes	179601-23-1	<0.0348	0.0348	mg/kg	01.26.18 18.58	U	1
o-Xylene	95-47-6	<0.0174	0.0174	mg/kg	01.26.18 18.58	U	1
Total Xylenes	1330-20-7	<0.0174	0.0174	mg/kg	01.26.18 18.58	U	1
Total BTEX		<0.0174	0.0174	mg/kg	01.26.18 18.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	68-120	01.26.18 18.58	
a,a,a-Trifluorotoluene	98-08-8	113	%	71-121	01.26.18 18.58	



Certificate of Analytical Results 574161

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: **SP-17 Wall b @ 1'**

Matrix: Soil

Date Received: 01.20.18 17.20

Lab Sample Id: 574161-012

Date Collected: 01.17.18 15.11

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.25.18 13.00

Basis: Wet Weight

Seq Number: 3039520

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.48	3.48	mg/kg	01.26.18 18.58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	101	%	76-123	01.26.18 18.58		
a,a,a-Trifluorotoluene	98-08-8	109	%	69-120	01.26.18 18.58		



Certificate of Analytical Results 574161

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: **SP-18 Wall @ 1'**

Matrix: Soil

Date Received: 01.20.18 17.20

Lab Sample Id: 574161-013

Date Collected: 01.17.18 15.30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: RNL

% Moisture:

Analyst: RNL

Date Prep: 01.23.18 15.30

Basis: Wet Weight

Seq Number: 3039175

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	172	25.0	mg/kg	01.24.18 19.10		1

Analytical Method: DRO-ORO By SW8015 Mod

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: PGM

Date Prep: 01.23.18 12.45

Basis: Wet Weight

Seq Number: 3039072

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	01.23.18 21.41	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<25.0	25.0	mg/kg	01.23.18 21.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	95	%	65-144	01.23.18 21.41	
n-Triacontane	638-68-6	64	%	46-152	01.23.18 21.41	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.25.18 13.00

Basis: Wet Weight

Seq Number: 3039518

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0184	0.0184	mg/kg	01.26.18 19.26	U	1
Toluene	108-88-3	<0.0184	0.0184	mg/kg	01.26.18 19.26	U	1
Ethylbenzene	100-41-4	<0.0184	0.0184	mg/kg	01.26.18 19.26	U	1
m,p-Xylenes	179601-23-1	<0.0368	0.0368	mg/kg	01.26.18 19.26	U	1
o-Xylene	95-47-6	<0.0184	0.0184	mg/kg	01.26.18 19.26	U	1
Total Xylenes	1330-20-7	<0.0184	0.0184	mg/kg	01.26.18 19.26	U	1
Total BTEX		<0.0184	0.0184	mg/kg	01.26.18 19.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	68-120	01.26.18 19.26	
a,a,a-Trifluorotoluene	98-08-8	114	%	71-121	01.26.18 19.26	



Certificate of Analytical Results 574161

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: **SP-18 Wall @ 1'**

Matrix: Soil

Date Received: 01.20.18 17.20

Lab Sample Id: 574161-013

Date Collected: 01.17.18 15.30

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.25.18 13.00

Basis: Wet Weight

Seq Number: 3039520

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.68	3.68	mg/kg	01.26.18 19.26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	101	%	76-123	01.26.18 19.26		
a,a,a-Trifluorotoluene	98-08-8	112	%	69-120	01.26.18 19.26		



Certificate of Analytical Results 574161

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: SP-19 Wall @ 1'

Matrix: Soil

Date Received: 01.20.18 17.20

Lab Sample Id: 574161-014

Date Collected: 01.17.18 15.32

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: RNL

% Moisture:

Analyst: RNL

Date Prep: 01.23.18 15.30

Basis: Wet Weight

Seq Number: 3039175

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	157	25.0	mg/kg	01.24.18 19.22		1

Analytical Method: DRO-ORO By SW8015 Mod

Prep Method: SW8015P

Tech: PGM

% Moisture:

Analyst: PGM

Date Prep: 01.23.18 12.45

Basis: Wet Weight

Seq Number: 3039072

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	01.23.18 22.16	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<25.0	25.0	mg/kg	01.23.18 22.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	97	%	65-144	01.23.18 22.16	
n-Triacontane	638-68-6	66	%	46-152	01.23.18 22.16	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.25.18 13.00

Basis: Wet Weight

Seq Number: 3039518

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0183	0.0183	mg/kg	01.26.18 19.52	U	1
Toluene	108-88-3	<0.0183	0.0183	mg/kg	01.26.18 19.52	U	1
Ethylbenzene	100-41-4	<0.0183	0.0183	mg/kg	01.26.18 19.52	U	1
m,p-Xylenes	179601-23-1	<0.0366	0.0366	mg/kg	01.26.18 19.52	U	1
o-Xylene	95-47-6	<0.0183	0.0183	mg/kg	01.26.18 19.52	U	1
Total Xylenes	1330-20-7	<0.0183	0.0183	mg/kg	01.26.18 19.52	U	1
Total BTEX		<0.0183	0.0183	mg/kg	01.26.18 19.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	68-120	01.26.18 19.52	
a,a,a-Trifluorotoluene	98-08-8	115	%	71-121	01.26.18 19.52	



Certificate of Analytical Results 574161

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: **SP-19 Wall @ 1'**

Matrix: Soil

Date Received: 01.20.18 17.20

Lab Sample Id: 574161-014

Date Collected: 01.17.18 15.32

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.25.18 13.00

Basis: Wet Weight

Seq Number: 3039520

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.66	3.66	mg/kg	01.26.18 19.52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	101	%	76-123	01.26.18 19.52		
a,a,a-Trifluorotoluene	98-08-8	109	%	69-120	01.26.18 19.52		



Certificate of Analytical Results 574161

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: **SP-20 Wall @ 1'** Matrix: Soil Date Received: 01.20.18 17.20
Lab Sample Id: 574161-015 Date Collected: 01.17.18 15.38
Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: RNL % Moisture:
Analyst: RNL Date Prep: 01.23.18 15.30 Basis: Wet Weight
Seq Number: 3039175

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	314	25.0	mg/kg	01.24.18 19.35		1

Analytical Method: DRO-ORO By SW8015 Mod Prep Method: SW8015P
Tech: PGM % Moisture:
Analyst: PGM Date Prep: 01.23.18 12.45 Basis: Wet Weight
Seq Number: 3039072

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Diesel Range Organics (DRO)	C10C28DRO	<25.0	25.0	mg/kg	01.23.18 22.52	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<25.0	25.0	mg/kg	01.23.18 22.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Tricosane	638-67-5	95	%	65-144	01.23.18 22.52	
n-Triacontane	638-68-6	64	%	46-152	01.23.18 22.52	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B
Tech: MIT % Moisture:
Analyst: MIT Date Prep: 01.25.18 13.00 Basis: Wet Weight
Seq Number: 3039518

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0175	0.0175	mg/kg	01.26.18 20.20	U	1
Toluene	108-88-3	<0.0175	0.0175	mg/kg	01.26.18 20.20	U	1
Ethylbenzene	100-41-4	<0.0175	0.0175	mg/kg	01.26.18 20.20	U	1
m,p-Xylenes	179601-23-1	<0.0350	0.0350	mg/kg	01.26.18 20.20	U	1
o-Xylene	95-47-6	<0.0175	0.0175	mg/kg	01.26.18 20.20	U	1
Total Xylenes	1330-20-7	<0.0175	0.0175	mg/kg	01.26.18 20.20	U	1
Total BTEX		<0.0175	0.0175	mg/kg	01.26.18 20.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	68-120	01.26.18 20.20	
a,a,a-Trifluorotoluene	98-08-8	115	%	71-121	01.26.18 20.20	



Certificate of Analytical Results 574161

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 2

Sample Id: **SP-20 Wall @ 1'**

Matrix: Soil

Date Received: 01.20.18 17.20

Lab Sample Id: 574161-015

Date Collected: 01.17.18 15.38

Analytical Method: TPH GRO by EPA 8015 Mod.

Prep Method: SW5030B

Tech: MIT

% Moisture:

Analyst: MIT

Date Prep: 01.25.18 13.00

Basis: Wet Weight

Seq Number: 3039520

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
TPH-GRO	8006-61-9	<3.50	3.50	mg/kg	01.26.18 20.20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	99	%	76-123	01.26.18 20.20		
a,a,a-Trifluorotoluene	98-08-8	113	%	69-120	01.26.18 20.20		



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

****** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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Trinity Oilfield Services & Rentals, LLC
Covington A Federal 2

Analytical Method: Chloride by EPA 300

Seq Number: 3039003

MB Sample Id: 7637914-1-BLK

Matrix: Solid

LCS Sample Id: 7637914-1-BKS

Prep Method: E300P

Date Prep: 01.23.18

LCSD Sample Id: 7637914-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<25.0	250	248	99	244	98	90-110	2	20	mg/kg	01.23.18 09:24	

Analytical Method: Chloride by EPA 300

Seq Number: 3039175

MB Sample Id: 7638004-1-BLK

Matrix: Solid

LCS Sample Id: 7638004-1-BKS

Prep Method: E300P

Date Prep: 01.23.18

LCSD Sample Id: 7638004-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<25.0	250	251	100	251	100	90-110	0	20	mg/kg	01.24.18 14:37	

Analytical Method: Chloride by EPA 300

Seq Number: 3039003

Parent Sample Id: 574173-001

Matrix: Soil

MS Sample Id: 574173-001 S

Prep Method: E300P

Date Prep: 01.23.18

MSD Sample Id: 574173-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<2.50	250	26.3	11	25.0	10	80-120	5	20	mg/kg	01.23.18 10:13	X

Analytical Method: Chloride by EPA 300

Seq Number: 3039003

Parent Sample Id: 574204-002

Matrix: Soil

MS Sample Id: 574204-002 S

Prep Method: E300P

Date Prep: 01.23.18

MSD Sample Id: 574204-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<25.0	250	280	112	263	105	80-120	6	20	mg/kg	01.23.18 12:42	

Analytical Method: Chloride by EPA 300

Seq Number: 3039175

Parent Sample Id: 574161-001

Matrix: Soil

MS Sample Id: 574161-001 S

Prep Method: E300P

Date Prep: 01.23.18

MSD Sample Id: 574161-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<25.0	250	262	105	265	106	80-120	1	20	mg/kg	01.24.18 15:14	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery $[D] = 100 * (C - A) / B$
 $RPD = 200 * | (C - E) / (C + E) |$
 $[D] = 100 * (C) / [B]$ LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD ResultMS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Trinity Oilfield Services & Rentals, LLC
Covington A Federal 2

Analytical Method: Chloride by EPA 300

Seq Number: 3039175

Parent Sample Id: 574161-009

Matrix: Soil

MS Sample Id: 574161-009 S

Prep Method: E300P

Date Prep: 01.23.18

MSD Sample Id: 574161-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	464	250	669	82	668	82	80-120	0	20	mg/kg	01.24.18 17:55	

Analytical Method: DRO-ORO By SW8015 Mod

Seq Number: 3039072

MB Sample Id: 7637949-1-BLK

Matrix: Solid

LCS Sample Id: 7637949-1-BKS

Prep Method: SW8015P

Date Prep: 01.23.18

LCSD Sample Id: 7637949-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Diesel Range Organics (DRO)	<25.0	100	105	105	99.7	100	63-139	5	20	mg/kg	01.23.18 12:59	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tricosane	100		109		107		65-144	%	01.23.18 12:59
n-Triacontane	69		66		69		46-152	%	01.23.18 12:59

Analytical Method: DRO-ORO By SW8015 Mod

Seq Number: 3039311

MB Sample Id: 7638089-1-BLK

Matrix: Solid

LCS Sample Id: 7638089-1-BKS

Prep Method: SW8015P

Date Prep: 01.25.18

LCSD Sample Id: 7638089-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Diesel Range Organics (DRO)	<25.0	100	110	110	112	112	63-139	2	20	mg/kg	01.25.18 14:23	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Tricosane	116		126		128		65-144	%	01.25.18 14:23
n-Triacontane	76		79		75		46-152	%	01.25.18 14:23

Analytical Method: DRO-ORO By SW8015 Mod

Seq Number: 3039072

Parent Sample Id: 574161-001

Matrix: Soil

MS Sample Id: 574161-001 S

Prep Method: SW8015P

Date Prep: 01.23.18

MSD Sample Id: 574161-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Diesel Range Organics (DRO)	<25.0	100	104	104	98.6	99	63-139	5	20	mg/kg	01.23.18 14:42	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Tricosane	115		114		65-144	%	01.23.18 14:42
n-Triacontane	70		65		46-152	%	01.23.18 14:42

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery $[D] = 100 * (C - A) / B$
 $RPD = 200 * | (C - E) / (C + E) |$
 $[D] = 100 * (C) / [B]$ LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD ResultMS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



QC Summary 574161

Trinity Oilfield Services & Rentals, LLC Covington A Federal 2

Analytical Method: DRO-ORO By SW8015 Mod

Seq Number: 3039311

Parent Sample Id: 574161-006

Matrix: Soil

MS Sample Id: 574161-006 S

Prep Method: SW8015P

Date Prep: 01.25.18

MSD Sample Id: 574161-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Diesel Range Organics (DRO)	<25.0	100	108	108	105	105	63-139	3	20	mg/kg	01.25.18 16:07	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits			Units	Analysis Date	
Tricosane			130		128		65-144			%	01.25.18 16:07	
n-Triacontane			78		79		46-152			%	01.25.18 16:07	

Analytical Method: BTEX by EPA 8021B

Seq Number: 3039518

MB Sample Id: 7638036-1-BLK

Matrix: Solid

LCS Sample Id: 7638036-1-BKS

Prep Method: SW5030B

Date Prep: 01.25.18

LCSD Sample Id: 7638036-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.0200	2.00	1.97	99	1.96	98	55-120	1	20	mg/kg	01.26.18 06:47	
Toluene	<0.0200	2.00	2.06	103	2.07	104	77-120	0	20	mg/kg	01.26.18 06:47	
Ethylbenzene	<0.0200	2.00	2.13	107	2.15	108	77-120	1	20	mg/kg	01.26.18 06:47	
m,p-Xylenes	<0.0400	4.00	4.27	107	4.29	107	78-120	0	20	mg/kg	01.26.18 06:47	
o-Xylene	<0.0200	2.00	2.09	105	2.11	106	78-120	1	20	mg/kg	01.26.18 06:47	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
4-Bromofluorobenzene	106		104		104		68-120			%	01.26.18 06:47	
a,a,a-Trifluorotoluene	104		94		96		71-121			%	01.26.18 06:47	

Analytical Method: BTEX by EPA 8021B

Seq Number: 3039518

Parent Sample Id: 574161-001

Matrix: Soil

MS Sample Id: 574161-001 S

Prep Method: SW5030B

Date Prep: 01.25.18

MSD Sample Id: 574161-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.0198	1.98	1.85	93	1.84	94	54-120	1	25	mg/kg	01.26.18 10:23	
Toluene	<0.0198	1.98	2.01	102	2.03	104	57-120	1	25	mg/kg	01.26.18 10:23	
Ethylbenzene	<0.0198	1.98	2.17	110	2.18	111	58-131	0	25	mg/kg	01.26.18 10:23	
m,p-Xylenes	<0.0396	3.96	4.36	110	4.39	112	62-124	1	25	mg/kg	01.26.18 10:23	
o-Xylene	<0.0198	1.98	2.12	107	2.12	108	62-124	0	25	mg/kg	01.26.18 10:23	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits			Units	Analysis Date	
4-Bromofluorobenzene			108		108		68-120			%	01.26.18 10:23	
a,a,a-Trifluorotoluene			106		107		71-121			%	01.26.18 10:23	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery

$[D] = 100 * (C-A) / B$
 $RPD = 200 * | (C-E) / (C+E) |$
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Trinity Oilfield Services & Rentals, LLC
Covington A Federal 2

Analytical Method: TPH GRO by EPA 8015 Mod.

Seq Number: 3039520

MB Sample Id: 7638038-1-BLK

Matrix: Solid

LCS Sample Id: 7638038-1-BKS

Prep Method: SW5030B

Date Prep: 01.25.18

LCSD Sample Id: 7638038-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO	<4.00	20.0	17.9	90	18.2	91	35-129	2	20	mg/kg	01.26.18 07:41	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
4-Bromofluorobenzene	95		100		99		76-123	%	01.26.18 07:41			
a,a,a-Trifluorotoluene	111		99		94		69-120	%	01.26.18 07:41			

Analytical Method: TPH GRO by EPA 8015 Mod.

Seq Number: 3039520

Parent Sample Id: 574161-001

Matrix: Soil

MS Sample Id: 574161-001 S

Prep Method: SW5030B

Date Prep: 01.25.18

MSD Sample Id: 574161-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
TPH-GRO	<3.62	18.1	13.8	76	15.8	80	35-129	14	20	mg/kg	01.26.18 11:17	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date			
4-Bromofluorobenzene			103		103		76-123	%	01.26.18 11:17			
a,a,a-Trifluorotoluene			102		98		69-120	%	01.26.18 11:17			

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery $[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$ LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD ResultMS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



CHAIN OF CUSTODY RECORD

Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800

Page 1 of 2

LAB W.O.#:

Field billable Hrs:

* Container Type Codes

VA Vial Amber ES Encore Sampler
VC Vial Clear TS TerraCore Sampler
VP Vial Pre-preserved AC Air Canister
GA Glass Amber TB Tedlar Bag
GC Glass Clear ZB Zip Lock Bag
PA Plastic Amber PC Plastic Clear
Other _____

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal, 40ml, 125 ml, 250 ml, 500 ml, 1L, Other _____

** Preservative Type Codes

A. None E. HCL I. Ice C.
B. HNO₃ F. MeOH J. MCAA
H₂SO₄ G. Na₂S₂O₃ K. ZnAc&NaOH
D. NaOH H. NaHSO₄ L. Asbc Acid&NaOH
O. _____

^ Matrix Type Codes

GW Ground Water S Soil/Sediment/Solid
WW Waste Water W Wipe
DW Drinking Water A Air
SW Surface Water O Oil
OW Ocean/Sea Water T Tissue
PL Product-Liquid U Urine
PS Product-Solid B Blood
SL Sludge
Other _____

REMARKS

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000 AND CI <= 600

Run if CI in Sample #006 > 600

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

Company: Trinity Oilfield Services & Rentals, LLC Phone: (575)390-7208
Address: P.O. Box 2587 Fax: _____
City: Hobbs State: NM Zip: 88241
PM/Attn: Ben J. Arguijo Email: wade.dittrich@oxy.com & ben@trinityoilfieldservices.com
Project ID: Covington A Federal 2 PO#: _____
Invoice To: Oxy - Wade Dittrich (575)390-2828 Quote #: _____
Sampler Name: Tristan Payne Circle One Event: Daily Weekly Monthly Quarterly
Semi-Annual Annual N/A

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered	Integrity OK (Y/N)	Total # of containers	Example Volatiles by 8260	TPH	BTEX	Chloride	Hold Sample (CALL on Highest TPH Only)
1	SP-8 - Wall @ 3'	1/12/18	1410	S			1		X			
2	SP-9 - Wall @ 3'	1/12/18	1435	S			1		X			
3	SP-10 - Wall @ 3'	1/12/18	1600	S			1		X			
4	SP-11 - Wall @ 3'	1/12/18	1617	S			1		X			
5	SP-12 - Wall @ 3'	1/12/18	1624	S			1		X			
6	SP-13 - @ 1'	1/16/18	1300	S			1		X			
7	SP-13 - @ 2'	1/16/18	1442	S			1		Hold			
8	SP-14 - @ 1'	1/16/18	1305	S			1		X			
9	SP-15 - @ 1'	1/17/18	1440	S			1		X			
0	SP-16 - Wall @ 1'	1/17/18	1447	S			1		X			

Reg. Program / Clean-up Std STATE for Certs & Regs QA/QC Level & Certification
CTLs TRRP DW NPDES LPST DryCln Other: FL TX GA NC SC NJ PA OK 1 2 3 4 CLP AFCEE QAPP NELAC
LA AL NM Other: DoD-ELAP Other: _____

EDDs

COC & Labels

Coolers Temp °C

Lab Use Only

Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1	Trinity	1-19-18	9:30pm	Trinity	Trinity	1/19/18	1730
2	Trinity	1/20/18	1720				
3							
4							

Received by	Affiliation	Date	Time
Brandon Wood	Xenco	1/20/18	17:20

Non-Conformances found? _____
Samples intact upon arrival? _____
Received on Wet Ice? _____
Labeled with proper preservatives? _____
Received within holding time? _____
Custody seals intact? _____
VOCs rec'd w/o headspace? _____
Proper containers used? _____
pH verified-acceptable, exd VOCs? _____
Received on time to meet HTs? _____

B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-4330
FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

C.O.C. Serial #

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net 30 days, and all past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full.

Revision Date: Nov 12, 2009



CHAIN OF CUSTODY RECORD

Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79765 (432)563-1800
jrool-c

Page 2 of 2

LAB W.O # :

Field billable Hrs :

* Container Type Codes

VA	Vial Amber	ES	Encore Sampler
VC	Vial Clear	TS	TerraCore Sampler
VP	Vial Pre-preserved	AC	Air Canister
GA	Glass Amber	TB	Tedlar Bag
GC	Glass Clear	ZB	Zip Lock Bag
PA	Plastic Amber	PC	Plastic Clear
PC	Plastic Clear		
Other			

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal
40ml, 125 ml, 250 ml, 500 ml, 1L, Other

** Preservative Type Codes

A. None E. HCL I. Ice
B. HNO_3 F. MeOH J. MCAA
 H_2SO_4 G. $\text{Na}_2\text{S}_2\text{O}_3$ K. $\text{ZnAc} \& \text{NaOH}$
D. NaOH H. NaHSO_4 L. Asbc Acid & NaOH

^ Matrix Type Codes

GW	Ground Water	S	Soil/Sediment/Solid
WW	Waste Water	W	Wipe
DW	Drinking Water	A	Air
SW	Surface Water	O	Oil
OW	Ocean/Sea Water	T	Tissue
PL	Product-Liquid	U	Urine
PS	Product-Solid	B	Blood
SL	Sludge		

REMARKS

Company: Trinity Oilfield Services & Rentals, LLC						Phone: (575)390-7208		Field billable Hrs : _____										PA Plastic Amber PC Plastic Clear Other _____				
Address: P.O. Box 2587						Fax:		TAT Work Days = D Need results by: _____ Time: _____										Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal 40ml, 125 ml, 250 ml, 500 ml, 1L, Other _____				
City: Hobbs				State: NM		Zip: 88241		Std (5-7D) 5Hrs 1D 2D 3D 4D 5D 7D 10D 14D Other _____										** Preservative Type Codes				
PM/Attn: Ben J. Arguijo						Email: wade.dittrich@oxy.com & ben@trinityoilfieldservices.com		Cont Type + VC		GC	GC	GC									A. None E. HCL I. Ice B. HNO ₃ F. MeOH J. MCAA C. H ₂ SO ₄ G. Na ₂ S ₂ O ₈ K. ZnAc&NaOH D. NaOH H. NaHSO ₄ L. Asbc Acid&NaOH O. _____	
Project ID: Covington A Federal 2						PO#:		Pres Type**														
Invoice To: Oxy - Wade Dittrich (575)390-2828						Quote #:		Example Volatiles by 8260		TPH 8015M	BTEX	Chloride										
Sampler Name: Tristan Payne				Circle One Event: Daily Weekly Monthly Quarterly Semi-Annual Annual N/A																		
Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered Integrity OK (Y/N)	Total # of containers	# Cont	Lab Only:														
1	SP-17 - Wall @ 1'	1/17/18	1453	S		1	X	Hold														
2	SP-17 - Wall b @ 1'	1/17/18	1511	S		1	Hold															
3	SP-18 - Wall @ 1'	1/17/18	1530	S		1	X															
4	SP-19 - Wall @ 1'	1/17/18	1532	S		1	X															
5	SP-20 - Wall @ 1'	1/17/18	1538	S		1	X															
6																						
7																						
8																						
9																						
0																						
Reg. Program / Clean-up Std		STATE for Certs & Regs				QA/QC Level & Certification				EDDs		COC & Labels		Coolers Temp °C		Lab Use Only		YES NO N/A				
CTLs TRRP DW NPDES LPST DryCln Other:		FL TX GA NC SC NJ PA OK LA AL NM Other:				1 2 3 4 CLP AFCEE QAPP NELAC DoD-ELAP Other:				ADAPT SEDD ERPMIS XLS Other:		Match Incomplete Absent Unclear		1 2 3		Non-Conformances found? Samples intact upon arrival?						
Relinquished by		Affiliation		Date		Time		Received by		Affiliation		Date		Time		Received on Wet loc?						
1		Trinity		1-19-18		5:30pm		[Signature]		Trinity		1/19/18		1730		Labeled with proper preservatives?						
2		Trinity		1/20/18		1720		[Signature]		Trinity		1/20/18		1720		Received within holding time?						
3																Custody seals intact?						
4																VOCs rec'd w/o headspace?						
																Proper containers used?						
																pH verified-acceptable, excd VOCs?						
																Received on time to meet HTs?						

B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330
FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

C.O.C. Serial #

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Revision Date: Nov 12, 2009

Revision Date: Nov 12, 2009

Final 1.001

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 01/20/2018 05:20:00 PM

Work Order #: 574161

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-3

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	3.2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Brenda Ward
Brenda Ward

Date: 01/22/2018

Checklist reviewed by:

Holly Taylor
Holly Taylor

Date: 01/22/2018



Certificate of Analysis Summary 574548

Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Project Name: Covington A Federal 0002



Project Id:

Contact: Ben Arguijo

Project Location:

Date Received in Lab: Wed Jan-24-18 03:00 pm

Report Date: 05-FEB-18

Project Manager: Holly Taylor

Analysis Requested	Lab Id:	574548-001	574548-002	574548-003			
	Field Id:	SP-1 Wall @ 2'	SP-2 Wall @ 2'	SP-3 Wall @ 2'			
	Depth:	2- ft	2- ft	2- ft			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Jan-24-18 09:00	Jan-24-18 09:05	Jan-24-18 09:10			
BTEX by EPA 8021B	Extracted:	Jan-30-18 10:00	Jan-29-18 09:00	Jan-29-18 09:00			
	Analyzed:	Jan-30-18 15:05	Jan-29-18 13:10	Jan-29-18 13:29			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00334 0.00334	<0.00201 0.00201	<0.00202 0.00202			
Toluene		<0.00334 0.00334	0.00312 0.00201	0.00296 0.00202			
Ethylbenzene		<0.00334 0.00334	<0.00201 0.00201	<0.00202 0.00202			
m,p-Xylenes		<0.00669 0.00669	<0.00402 0.00402	<0.00403 0.00403			
o-Xylene		<0.00334 0.00334	<0.00201 0.00201	<0.00202 0.00202			
Total Xylenes		<0.00334 0.00334	<0.00201 0.00201	<0.00202 0.00202			
Total BTEX		<0.00334 0.00334	0.00312 0.00201	0.00296 0.00202			
Chloride by EPA 300	Extracted:	Jan-29-18 10:35	Jan-29-18 10:35	Jan-29-18 10:35			
	Analyzed:	Jan-29-18 14:38	Jan-29-18 14:45	Jan-29-18 14:52			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		10.6 4.94	134 4.99	289 5.00			
TPH By SW8015 Mod	Extracted:	Jan-26-18 17:00	Jan-26-18 17:00	Jan-26-18 17:00			
	Analyzed:	Jan-27-18 08:32	Jan-27-18 09:35	Jan-27-18 09:55			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0			
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0			
Oil Range Hydrocarbons (ORO)		<15.0 15.0	<15.0 15.0	<15.0 15.0			
Total TPH		<15.0 15.0	<15.0 15.0	<15.0 15.0			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Holly Taylor
Project Manager

Analytical Report 574548
for
Trinity Oilfield Services & Rentals, LLC

Project Manager: Ben Arguijo
Covington A Federal 0002

05-FEB-18

Collected By: Client



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):
Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



05-FEB-18

Project Manager: **Ben Arguijo**
Trinity Oilfield Services & Rentals, LLC
PO BOX 2587
Hobbs, NM 88241

Reference: XENCO Report No(s): **574548**
Covington A Federal 0002
Project Address:

Ben Arguijo:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 574548. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 574548 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holly Taylor
Project Manager

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Sample Cross Reference 574548



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM

Covington A Federal 0002

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-1 Wall @ 2'	S	01-24-18 09:00	2 ft	574548-001
SP-2 Wall @ 2'	S	01-24-18 09:05	2 ft	574548-002
SP-3 Wall @ 2'	S	01-24-18 09:10	2 ft	574548-003



CASE NARRATIVE

Client Name: *Trinity Oilfield Services & Rentals, LLC*

Project Name: *Covington A Federal 0002*

Project ID:

Work Order Number(s): 574548

Report Date: 05-FEB-18

Date Received: 01/24/2018

Sample receipt non conformance and comments:

Sample receipt non conformance and comments per sample:

None

Analytical non conformance and comments:

Batch: LBA-3039610 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3039636 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analytical Results 574548



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-1 Wall @ 2'** Matrix: Soil Date Received: 01.24.18 15.00
Lab Sample Id: 574548-001 Date Collected: 01.24.18 09.00 Sample Depth: 2 ft
Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: OJS % Moisture:
Analyst: OJS Date Prep: 01.29.18 10.35 Basis: Wet Weight
Seq Number: 3039656

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.6	4.94	mg/kg	01.29.18 14.38		1

Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 01.26.18 17.00 Basis: Wet Weight
Seq Number: 3039411

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.27.18 08.32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.27.18 08.32	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.27.18 08.32	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.27.18 08.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	01.27.18 08.32	
o-Terphenyl	84-15-1	89	%	70-135	01.27.18 08.32	



Certificate of Analytical Results 574548



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-1 Wall @ 2'**

Matrix: Soil

Date Received: 01.24.18 15.00

Lab Sample Id: 574548-001

Date Collected: 01.24.18 09.00

Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.30.18 10.00

Basis: Wet Weight

Seq Number: 3039636

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00334	0.00334	mg/kg	01.30.18 15.05	U	1
Toluene	108-88-3	<0.00334	0.00334	mg/kg	01.30.18 15.05	U	1
Ethylbenzene	100-41-4	<0.00334	0.00334	mg/kg	01.30.18 15.05	U	1
m,p-Xylenes	179601-23-1	<0.00669	0.00669	mg/kg	01.30.18 15.05	U	1
o-Xylene	95-47-6	<0.00334	0.00334	mg/kg	01.30.18 15.05	U	1
Total Xylenes	1330-20-7	<0.00334	0.00334	mg/kg	01.30.18 15.05	U	1
Total BTEX		<0.00334	0.00334	mg/kg	01.30.18 15.05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	85	%	80-120	01.30.18 15.05		
4-Bromofluorobenzene	460-00-4	96	%	80-120	01.30.18 15.05		



Certificate of Analytical Results 574548



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-2 Wall @ 2'** Matrix: Soil Date Received: 01.24.18 15.00
Lab Sample Id: 574548-002 Date Collected: 01.24.18 09.05 Sample Depth: 2 ft
Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: OJS % Moisture:
Analyst: OJS Date Prep: 01.29.18 10.35 Basis: Wet Weight
Seq Number: 3039656

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	134	4.99	mg/kg	01.29.18 14.45		1

Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 01.26.18 17.00 Basis: Wet Weight
Seq Number: 3039411

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.27.18 09.35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.27.18 09.35	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.27.18 09.35	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.27.18 09.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	01.27.18 09.35	
o-Terphenyl	84-15-1	91	%	70-135	01.27.18 09.35	



Certificate of Analytical Results 574548



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-2 Wall @ 2'**

Matrix: Soil

Date Received: 01.24.18 15.00

Lab Sample Id: 574548-002

Date Collected: 01.24.18 09.05

Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.29.18 09.00

Basis: Wet Weight

Seq Number: 3039610

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.29.18 13.10	U	1
Toluene	108-88-3	0.00312	0.00201	mg/kg	01.29.18 13.10		1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.29.18 13.10	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.29.18 13.10	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.29.18 13.10	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.29.18 13.10	U	1
Total BTEX		0.00312	0.00201	mg/kg	01.29.18 13.10		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	85	%	80-120	01.29.18 13.10		
4-Bromofluorobenzene	460-00-4	113	%	80-120	01.29.18 13.10		



Certificate of Analytical Results 574548



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-3 Wall @ 2'** Matrix: Soil Date Received: 01.24.18 15.00
Lab Sample Id: 574548-003 Date Collected: 01.24.18 09.10 Sample Depth: 2 ft
Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: OJS % Moisture:
Analyst: OJS Date Prep: 01.29.18 10.35 Basis: Wet Weight
Seq Number: 3039656

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	289	5.00	mg/kg	01.29.18 14.52		1

Analytical Method: TPH By SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 01.26.18 17.00 Basis: Wet Weight
Seq Number: 3039411

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	01.27.18 09.55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	01.27.18 09.55	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	01.27.18 09.55	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	01.27.18 09.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	01.27.18 09.55	
o-Terphenyl	84-15-1	97	%	70-135	01.27.18 09.55	



Certificate of Analytical Results 574548



Trinity Oilfield Services & Rentals, LLC, Hobbs, NM Covington A Federal 0002

Sample Id: **SP-3 Wall @ 2'**

Matrix: Soil

Date Received: 01.24.18 15.00

Lab Sample Id: 574548-003

Date Collected: 01.24.18 09.10

Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 01.29.18 09.00

Basis: Wet Weight

Seq Number: 3039610

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.29.18 13.29	U	1
Toluene	108-88-3	0.00296	0.00202	mg/kg	01.29.18 13.29		1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.29.18 13.29	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.29.18 13.29	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.29.18 13.29	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.29.18 13.29	U	1
Total BTEX		0.00296	0.00202	mg/kg	01.29.18 13.29		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	86	%	80-120	01.29.18 13.29		
4-Bromofluorobenzene	460-00-4	92	%	80-120	01.29.18 13.29		

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(602) 437-0330	



Trinity Oilfield Services & Rentals, LLC
Covington A Federal 0002

Analytical Method: Chloride by EPA 300

Seq Number: 3039656

MB Sample Id: 7638225-1-BLK

Matrix: Solid

LCS Sample Id: 7638225-1-BKS

Prep Method: E300P

Date Prep: 01.29.18

LCSD Sample Id: 7638225-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	255	102	256	102	90-110	0	20	mg/kg	01.29.18 13:21	

Analytical Method: Chloride by EPA 300

Seq Number: 3039656

Parent Sample Id: 574474-002

Matrix: Soil

MS Sample Id: 574474-002 S

Prep Method: E300P

Date Prep: 01.29.18

MSD Sample Id: 574474-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	20.5	246	290	110	295	112	90-110	2	20	mg/kg	01.29.18 13:42	X

Analytical Method: Chloride by EPA 300

Seq Number: 3039656

Parent Sample Id: 574550-002

Matrix: Soil

MS Sample Id: 574550-002 S

Prep Method: E300P

Date Prep: 01.29.18

MSD Sample Id: 574550-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	327	249	562	94	574	99	90-110	2	20	mg/kg	01.29.18 15:20	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3039411

MB Sample Id: 7638142-1-BLK

Matrix: Solid

LCS Sample Id: 7638142-1-BKS

Prep Method: TX1005P

Date Prep: 01.26.18

LCSD Sample Id: 7638142-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	838	84	915	92	70-135	9	35	mg/kg	01.27.18 07:49	
Diesel Range Organics (DRO)	<15.0	1000	954	95	1030	103	70-135	8	35	mg/kg	01.27.18 07:49	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	92		111		113		70-135	%	01.27.18 07:49
o-Terphenyl	94		111		103		70-135	%	01.27.18 07:49

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery

$[D] = 100 * (C-A) / B$
 $RPD = 200 * | (C-E) / (C+E) |$
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Trinity Oilfield Services & Rentals, LLC
Covington A Federal 0002

Analytical Method: TPH By SW8015 Mod

Seq Number: 3039411

Parent Sample Id: 574548-001

Matrix: Soil

MS Sample Id: 574548-001 S

Prep Method: TX1005P

Date Prep: 01.26.18

MSD Sample Id: 574548-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	998	820	82	821	82	70-135	0	35	mg/kg	01.27.18 08:54	
Diesel Range Organics (DRO)	<15.0	998	866	87	940	94	70-135	8	35	mg/kg	01.27.18 08:54	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	93		109		70-135	%	01.27.18 08:54
o-Terphenyl	82		104		70-135	%	01.27.18 08:54

Analytical Method: BTEX by EPA 8021B

Seq Number: 3039610

MB Sample Id: 7638253-1-BLK

Matrix: Solid

LCS Sample Id: 7638253-1-BKS

Prep Method: SW5030B

Date Prep: 01.29.18

LCSD Sample Id: 7638253-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0897	90	0.0882	89	70-130	2	35	mg/kg	01.29.18 10:11	
Toluene	<0.00200	0.0998	0.0938	94	0.0924	93	70-130	2	35	mg/kg	01.29.18 10:11	
Ethylbenzene	<0.00200	0.0998	0.103	103	0.101	102	71-129	2	35	mg/kg	01.29.18 10:11	
m,p-Xylenes	<0.00399	0.200	0.202	101	0.199	100	70-135	1	35	mg/kg	01.29.18 10:11	
o-Xylene	<0.00200	0.0998	0.0997	100	0.0993	100	71-133	0	35	mg/kg	01.29.18 10:11	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	83		93		90		80-120	%	01.29.18 10:11
4-Bromofluorobenzene	84		102		98		80-120	%	01.29.18 10:11

Analytical Method: BTEX by EPA 8021B

Seq Number: 3039636

MB Sample Id: 7638289-1-BLK

Matrix: Solid

LCS Sample Id: 7638289-1-BKS

Prep Method: SW5030B

Date Prep: 01.30.18

LCSD Sample Id: 7638289-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.0939	93	0.0917	92	70-130	2	35	mg/kg	01.30.18 10:29	
Toluene	<0.00201	0.101	0.0976	97	0.0959	96	70-130	2	35	mg/kg	01.30.18 10:29	
Ethylbenzene	<0.00201	0.101	0.105	104	0.104	104	71-129	1	35	mg/kg	01.30.18 10:29	
m,p-Xylenes	<0.00402	0.201	0.207	103	0.206	103	70-135	0	35	mg/kg	01.30.18 10:29	
o-Xylene	<0.00201	0.101	0.102	101	0.101	101	71-133	1	35	mg/kg	01.30.18 10:29	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	89		92		90		80-120	%	01.30.18 10:29
4-Bromofluorobenzene	100		101		99		80-120	%	01.30.18 10:29

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery

$[D] = 100 * (C-A) / B$
 $RPD = 200 * | (C-E) / (C+E) |$
 $[D] = 100 * (C) / [B]$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Trinity Oilfield Services & Rentals, LLC
Covington A Federal 0002

Analytical Method: BTEX by EPA 8021B

Seq Number: 3039610

Parent Sample Id: 574590-001

Matrix: Soil

MS Sample Id: 574590-001 S

Prep Method: SW5030B

Date Prep: 01.29.18

MSD Sample Id: 574590-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0764	76	0.0768	77	70-130	1	35	mg/kg	01.29.18 10:50	
Toluene	<0.00202	0.101	0.0797	79	0.0788	79	70-130	1	35	mg/kg	01.29.18 10:50	
Ethylbenzene	<0.00202	0.101	0.0835	83	0.0828	83	71-129	1	35	mg/kg	01.29.18 10:50	
m,p-Xylenes	<0.00403	0.202	0.164	81	0.163	82	70-135	1	35	mg/kg	01.29.18 10:50	
o-Xylene	<0.00202	0.101	0.0814	81	0.0813	81	71-133	0	35	mg/kg	01.29.18 10:50	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	89		91		80-120	%	01.29.18 10:50
4-Bromofluorobenzene	104		100		80-120	%	01.29.18 10:50

Analytical Method: BTEX by EPA 8021B

Seq Number: 3039636

Parent Sample Id: 574873-001

Matrix: Soil

MS Sample Id: 574873-001 S

Prep Method: SW5030B

Date Prep: 01.30.18

MSD Sample Id: 574873-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.0836	84	0.0801	80	70-130	4	35	mg/kg	01.30.18 11:08	
Toluene	<0.00201	0.100	0.0879	88	0.0833	83	70-130	5	35	mg/kg	01.30.18 11:08	
Ethylbenzene	<0.00201	0.100	0.0954	95	0.0900	90	71-129	6	35	mg/kg	01.30.18 11:08	
m,p-Xylenes	<0.00402	0.201	0.188	94	0.179	90	70-135	5	35	mg/kg	01.30.18 11:08	
o-Xylene	<0.00201	0.100	0.0934	93	0.0895	90	71-133	4	35	mg/kg	01.30.18 11:08	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	89		87		80-120	%	01.30.18 11:08
4-Bromofluorobenzene	106		100		80-120	%	01.30.18 11:08

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery $[D] = 100 * (C-A) / B$
 $RPD = 200 * |(C-E) / (C+E)|$
 $[D] = 100 * (C) / [B]$ LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD ResultMS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



CHAIN OF CUSTODY RECORD

Houston: 4143 Greenbriar Dr. Stafford, TX 77477 (281)240-4200 Odessa: 12600 West I-20 East Odessa, TX 79785 (432)563-1800
roool-c

Page 1 of 1

LAB W.O #:

574548

Field billable Hrs :

* Container Type Codes

VA	Vial Amber	ES	Encore Sampler
VC	Vial Clear	TS	TerraCore Sampler
VP	Vial Pre-preserved	AC	Air Canister
GA	Glass Amber	TB	Tedlar Bag
GC	Glass Clear	ZB	Zip Lock Bag
PA	Plastic Amber	PC	Plastic Clear
PC	Plastic Clear		
Other			

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal
40ml, 125 ml, 250 ml, 500 ml, 1L, Other

** Preservative Type Codes

A.	None	E.	HCL	I.	Ice
B.	HNO ₃	F.	MeOH	J.	MCAA
H.	Na ₂ S ₂ O ₃	K.	ZnAc&NaOH	C.	
D.	NaOH	H.	NaHSO ₄	L.	Asbc Acid&NaOH
O.					

^ Matrix Type Codes

GW	Ground Water	S	Soil/Sediment/Solid
WW	Waste Water	W	Wipe
DW	Drinking Water	A	Air
SW	Surface Water	O	Oil
OW	Ocean/Sea Water	T	Tissue
PL	Product-Liquid	U	Urine
PS	Product-Solid	B	Blood
SL	Sludge		
Other			

REMARKS

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

Run BTEX if TPH <= 5,000

Company:	Trinity Oilfield Services & Rentals, LLC	Phone:	(575)390-7208
Address:	P.O. Box 2587	Fax:	
City:	Hobbs	State:	NM
		Zip:	88241
PM/Attn:	Ben J. Arguijo	Email:	wade.dittrich@oxy.com & ben@trinityoilfieldservices.com
Project ID:	Covington A Federal 0002	PO#:	
Invoice To:	Oxy - Wade Dittrich (575)390-2828	Quote #:	
Sampler Name:	Tristan Payne	Circle One Event:	Daily Weekly Monthly Quarterly Semi-Annual Annual N/A

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered	Integrity OK (Y/N)	Total # of containers	Example Volatiles by 8260	TPH	BTEX	Chloride	Hold Sample (CALL) Run PAH on Highest TPH Only
								# Cont	Lab Only:			
1	SP-1 - Wall @ 2'	1/24/18	0900	S			1		X			
2	SP-2 - Wall @ 2'	1/24/18	0905	S			1		X			
3	SP-3 - Wall @ 2'	1/24/18	0910	S			1		X			
4												
5												
6												
7												
8												
9												
0												

Reg. Program / Clean-up Std	STATE for Certs & Regs	QA/QC Level & Certification	EDDs	COC & Labels	Coolers Temp °C	Lab Use Only	YES NO N/A
CTLs TRRP DW NPDES LPST DryCln Other:	FL TX GA NC SC NJ PA OK LA AL NM Other:	1 2 3 4 CLP AFCEE QAPP NELAC DoD-ELAP Other:	ADaPT SEDD ERPIMS XLS Other:	Match Incomplete Absent Unclear	10.1 2 3	Non-Conformances found? Samples intact upon arrival? Received on Wet Ice? Labeled with proper preservatives? Received within holding time? Custody seals intact? VOCs rec'd w/o headspace? Proper containers used? pH verified-acceptable, excd VOCs? Received on time to meet HTs?	_____ _____ _____ _____ _____ _____ _____ _____ _____ _____
Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1	Trinity	1-24-18	3:00pm	Kenneth	MS	1-24-18	3:00
2	MS	1-24-18	3:23	Bell	Xeno	1-25-18	11:30
3							
4							

B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330

FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and condition: shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full.

C.O.C. Serial #

Temp: 1.3
CF:(0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 1.1

IR ID:R-8

all past due amounts



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Trinity Oilfield Services & Rentals, LLC

Date/ Time Received: 01/24/2018 03:00:00 PM

Work Order #: 574548

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	.1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Jessica Kramer

Jessica Kramer

Date: 01/25/2018

Checklist reviewed by:

Holly Taylor

Holly Taylor

Date: 01/25/2018