TETRA TECH

July 14, 2021

District Supervisor
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

Re: Release Characterization and Remediation Work Plan
ConocoPhillips
MCA 2C Injection Header Flange Release
Unit Letter J, Section 28, Township 17 South, Range 32 East
Lea County, New Mexico
1RP-5779
Incident Identification (ID) NRM1930950727

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to evaluate and assess a release that occurred at the Maljamar Cooperative Agreement (MCA) 2C Production and Water Injection Header. The release footprint is located in Public Land Survey System (PLSS) Unit Letter J, Section 28, Township 17 South, Range 32 East, in Lea County, New Mexico (Site). The approximate release point coordinates are 32.803723°, -103.769483°. The Site location is shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico C-141 Initial Report, the release was discovered on October 2, 2019 at the MCA 2C Production and Water Injection Header site location. The release occurred as the result of a leak from a gasket on the header flange valve. Approximately 12.3 barrels (bbls) of crude oil and 110.7 bbls of produced water were reported released, of which 1 bbl of crude oil and 7 bbls of produced water were reported recovered during initial response activities. The New Mexico Oil Conservation District (NMOCD) received the C-141 report form for the release on November 5, 2019 and subsequently assigned the Site the Remediation Permit (RP) number 1RP-5779 and Incident Identification (ID) NRM1930950727. The initial C-141 Form for 1RP-5779 is included in Appendix A.

SITE CHARACTERIZATION

A site characterization was performed and no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.0029 New Mexico Administrative Code (NMAC). The Site is in an area of low karst potential.

The Site is within a New Mexico oil and gas production area. According to the New Mexico Office of the State Engineers (NMOSE) database, there are 5 wells within a ½ mile (800-meter) radius of the Site with an average depth to groundwater at 99 feet (ft) below ground surface (bgs). The site characterization data is included in Appendix B.

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

REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the remediation RRALs for the Site are as follows:

Constituent	Remediation RRAL
Chloride	10,000 mg/kg
TPH	2,500 mg/kg
BTEX	50 mg/kg

Additionally, in accordance with the NMOCD guidance Procedures for Implementation of the Spill Rule (19.15.29 NMAC) (September 6, 2019), the following reclamation requirements for surface soils (0-4 ft bgs) outside of active oil and gas operations are as follows:

Constituent	Reclamation Requirements
Chloride	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg

INITIAL SITE ASSESSMENT AND ANALYTICAL RESULTS

An initial site assessment was conducted by COP in October 2019. COP personnel collected soil samples from forty-five accessible locations (SP-1 through SP-45) throughout the release extent interior. The borings were installed to a maximum depth of 2 feet below ground surface (bgs). Figure 3 depicts the release extent and the October 2019 sampling locations.

A total of 90 soil samples were collected from these boring locations and submitted to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for chloride via EPA Method SM4500Cl-B. A copy of the laboratory analytical reports and chain-of-custody documentation are included in Appendix C.

During the initial assessment event, analytical results associated with the majority of sample locations exceeded the reclamation requirement of 600 mg/kg chloride. However, of the 45 sample locations, the analytical results associated with 9 of the sample locations (SP #5, SP #12, SP #13, SP #25, SP #27, SP #29, SP #31, SP #32 and SP #42) were below 600 mg/kg for chloride in both the surface and 2 feet bgs sample depths. Results from the October 2019 soil sampling event are summarized in Table 1. Neither horizontal nor vertical delineation of the release was achieved during this assessment.

INITIAL RESPONSE AND REMEDIAL ACTIVITIES

In accordance with 19.15.29.8. B. (4) NMAC that states “the responsible party may commence remediation immediately after discovery of a release”, ConocoPhillips elected to begin remediation of the southern end of the footprint in early 2020. Portions of the release extent footprint found adjacent to the MCA #480 lease pad were excavated by COP personnel with heavy equipment to approximately 1-foot below ground surface (bgs) to remove the visually impacted soils. Figure 3 depicts the excavated area.

ADDITIONAL SITE ASSESSMENT

In order to achieve horizontal and vertical delineation of the 1RP-5779 release extent, Tetra Tech personnel conducted soil sampling from March to July 2020 on behalf of COP. Due to the abundance of surface flowlines and subsurface injection lines running across and through the release area footprint, a drilling rig was not able to safely access the release extent footprint and drill for delineation. Therefore, the site assessment activities consisted of digging a series of test pits within the release extent footprint with a mini excavator for vertical delineation, as well as completing borings for horizontal delineation around the release extent perimeter using a hand auger. These assessment activities were conducted in conjunction with additional assessment activities in the area, thus, nomenclature is non-consecutive.

For the additional delineation, a total of four (4) test pits (or trenches) were completed within the interior of the 1RP-5779 release extent. Trenches T-5 & T-6 were completed in the southern portion of the footprint and T-7 & T-8 were completed in the northern portion of the footprint.

A series of auger holes (AH) were completed as shown in Figure 4 to complete horizontal delineation. These auger holes were installed along and around the perimeter of the release extent (to the north, east, south and west, respectively) to a depth of 4 ft bgs to achieve horizontal delineation. The auger holes were completed alongside the trench locations and named accordingly. For instance, AH-5E and AH-5W are locations which provide horizontal delineation on the east and west sides of T-5, respectively. Figure 4 depicts the release extent and the May 2020 sampling locations. Test pit logs and boring logs from the 2020 assessment activities are included in Appendix D. In some areas, additional step out locations were required for horizontal delineation. These locations are designated with a numeral following the cardinal direction (i.e. AH-5W-2).

A total of 41 soil samples were collected from these various trench and boring locations and submitted to Pace Analytical National Center for Testing & Innovation (Pace) in Nashville, Tennessee to be analyzed for a combination of chlorides via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. Copies of the laboratory analytical reports and chain-of-custody documentation are included in Appendix D.

SUMMARY OF ADDITIONAL ASSESSMENT AND RELEASE CHARACTERIZATION

During the additional assessment event in 2020, the analytical results associated with boring locations T-5 through T-8, AH-5S, AH-5W-2, AH-7W, AH-7E and AH-8W were above RRALs for TPH and/or chloride in the minority of the sample intervals. Analytical results associated with boring locations AH-5S-2, AH-5W, AH-5E, AH-6W, AH-6E, AH-7W-2, AH-7E-2, AH-8W-2, AH-8E and AH-8N were below the RRALs for TPH, BTEX and chloride. Results from the additional soil sampling events are summarized in Table 2.

The MCA 2-C Production and Water Injection Header area has numerous underground injection lines and surface flowlines, in addition to piping and production equipment throughout the vicinity. The 2020 sampling locations were chosen based on accessibility and to avoid safety issues due to the surface and subsurface infrastructure. Totals depths of the borings and test pits ranged from 1 to 17.5 ft bgs.

T-7 was installed within the release footprint to specifically clarify the vertical extent of the release in the 1RP-5779 footprint. The analytical results associated with the 17.5’ sample at T-7 is the vertical delineation point for this release and is below the most stringent RRALs for chloride, TPH and BTEX.

The horizontal extent of the release footprint was defined through several iterations of hand auger borings. The analytical results associated with the AH-5S location exceeded the RRAL for TPH, however, AH-5S-2 was completed as an additional southern delineation point and was below the applicable RRALs. AH-6E, AH-7E-2 and AH-8E bound the release to the east. After several iterative boring locations, the release extent is bound to the west by locations AH-5W, AH-6W, AH-7W-2 and AH-8W-2. AH-8N bounds the release to the north. These borings meet the requirements for horizontal delineation per 19.15.29.11(A)(5)(b) NMAC.

The analytical results associated with samples collected around the release extent in the upper four (4) ft were below the reclamation RRALs for total TPH (GRO + DRO + ORO), BTEX and/or chloride in all samples. The boring locations are shown on Figure 4. Photographic documentation of the release area post-initial response is included as Appendix E.

REMEDIATION WORK PLAN

Based on the analytical results, ConocoPhillips proposes to further excavate soils to a total depth of 4 ft bgs in and around trench locations T-6 and T-7, as depicted in Figure 5. Screening samples will be collected during the excavation process to determine if the remediation footprint for the site will be modified based on field conditions. Impacted soils will be excavated using heavy equipment (backhoes, mini-excavators, and track hoes) to a maximum depth of 4 ft below surface or until a representative sample from the walls and bottom of the excavation is below the RRALs. Any area of the release extent that runs along steel flowlines or subsurface piping will be hand-dug to a depth of 4 ft or the maximum extent practicable.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation floor and sidewall samples will be collected for verification of remedial activities, and analyzed for TPH, BTEX, and chloride. Once the sample results are received, NMOCD will be notified and the excavation will then be backfilled with clean material to surface grade. The estimated volume of material to be remediated is 1,420 cubic yards.

ALTERNATIVE CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, ConocoPhillips proposes the following alternative confirmation sampling plan to adhere with NMOCD requirements. The proposed confirmation sample locations are depicted in Figure 6. Approximately nineteen (19) confirmation floor samples and forty-four (44) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses an area of approximately 10,273 square feet.

These confirmation sidewall and floor samples will be representative of no more than approximately 500 square feet of excavated area. Confirmation samples will be sent to an accredited laboratory for analysis of TPH, BTEX, and chlorides. Once results are received, NMOCD will be notified and the excavation will then be backfilled with clean material to surface grade.

SITE RECLAMATION AND RESTORATION PLAN

The backfilled areas will be seeded in Spring 2022 (or the first favorable growing season) to aid in revegetation. Based on soils at the Site, the New Mexico State Land Office (NMSLO) Sandy (S) Sites Seed Mixture will be used for seeding and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. The NMSLO seed mixture details and corresponding pounds pure live seed per acre are included in Appendix F.

CONCLUSION

ConocoPhillips proposes to begin remediation activities at the Site within 120 days of approval of this submittal. Upon completion of the proposed work, a final closure report detailing the remediation activities and the results of the confirmation sampling will be submitted to NMOCD.

If you have any questions concerning the soil assessment or the proposed remediation activities for the Site, please call me at (512) 338-2861 or Greg at (432) 682-4559.

Sincerely,
Tetra Tech, Inc.

Christian M. Llull, P.G.
Project Manager

Greg W. Pope, P.G.
Program Manager

cc:
Ms. Jenni Fortunato, RMR – ConocoPhillips
Mr. Charles Beauvais, GPBU - ConocoPhillips

List of Attachments

Figures:

- Figure 1 – Site Location Map
- Figure 2 – Site Location/Topographic Map
- Figure 3 – Approximate Release Extent and Initial Assessment Map
- Figure 4 – Site Assessment Map
- Figure 5 – Proposed Remediation Extents
- Figure 6 – Alternative Confirmation Sampling Plan

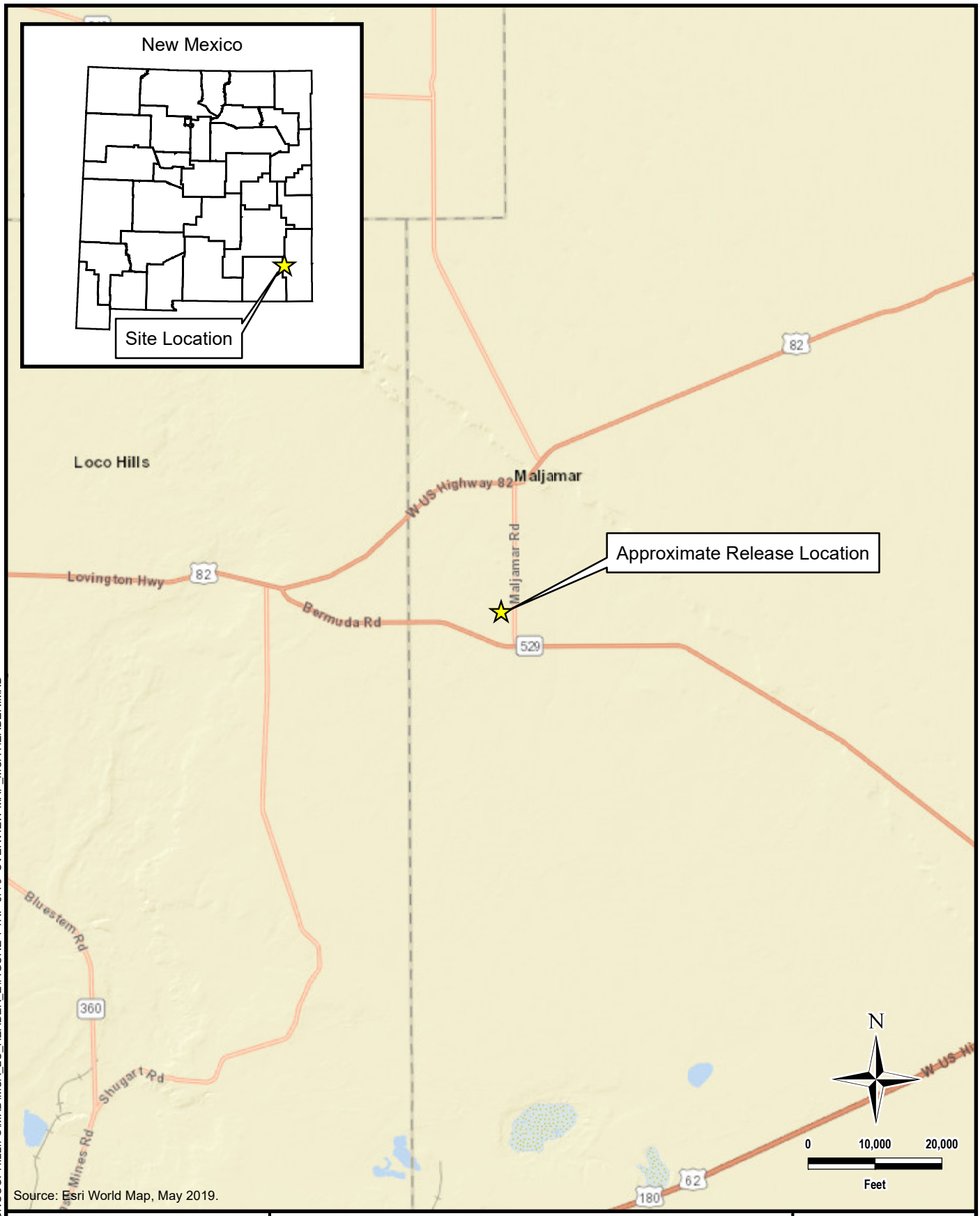
Tables:

- Table 1 – Summary of Analytical Results – Initial Soil Assessment
- Table 2 – Summary of Analytical Results – Additional Soil Assessment

Appendices:

- Appendix A – C-141 Form
- Appendix B – Site Characterization Data
- Appendix C – Laboratory Analytical Reports
- Appendix D – Soil Boring Logs
- Appendix E – Photographic Documentation
- Appendix F – NMSLO Seed Mixture

FIGURES



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\MCA_2C_HEADER_EVFIGURE 1 1RP-5779 OVERVIEW MAP_MCA HEADER.MXD

TETRA TECH

www.tetratech.com

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

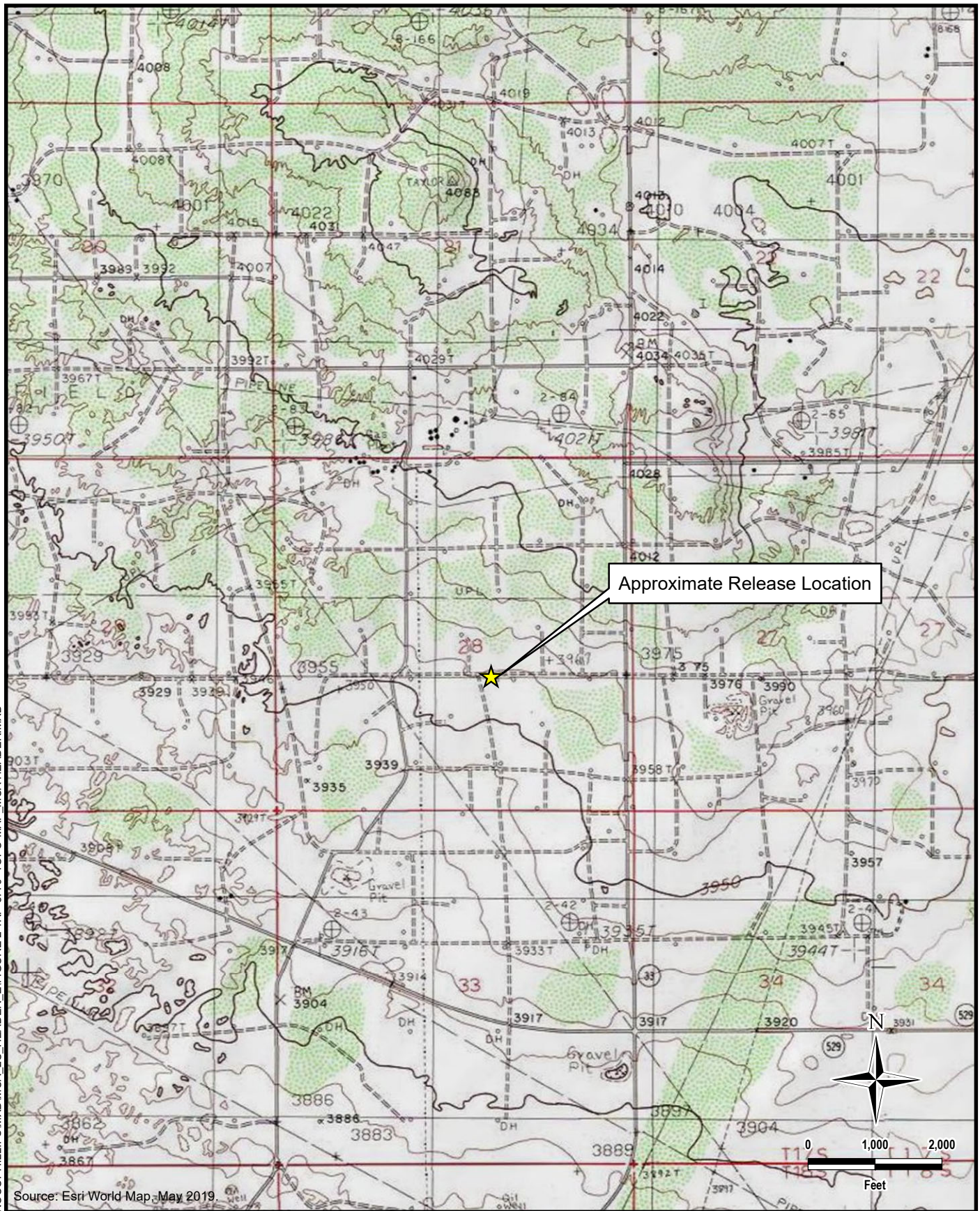
CONOCOPHILLIPS

1RP-5779
(32.803741°, -103.769477°)
LEA COUNTY, NEW MEXICO

MCA 2-C HEADER FLANGE RELEASE
OVERVIEW MAP

PROJECT NO.:	212C-MD-02020
DATE:	SEPTEMBER 29, 2020
DESIGNED BY:	AAM

Figure No.
1



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\MCA_2C_HEADER_E\FIGURE 2 1RP-5779 TOPO MAP_MCA HEADER.MXD

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www.tetratech.com

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

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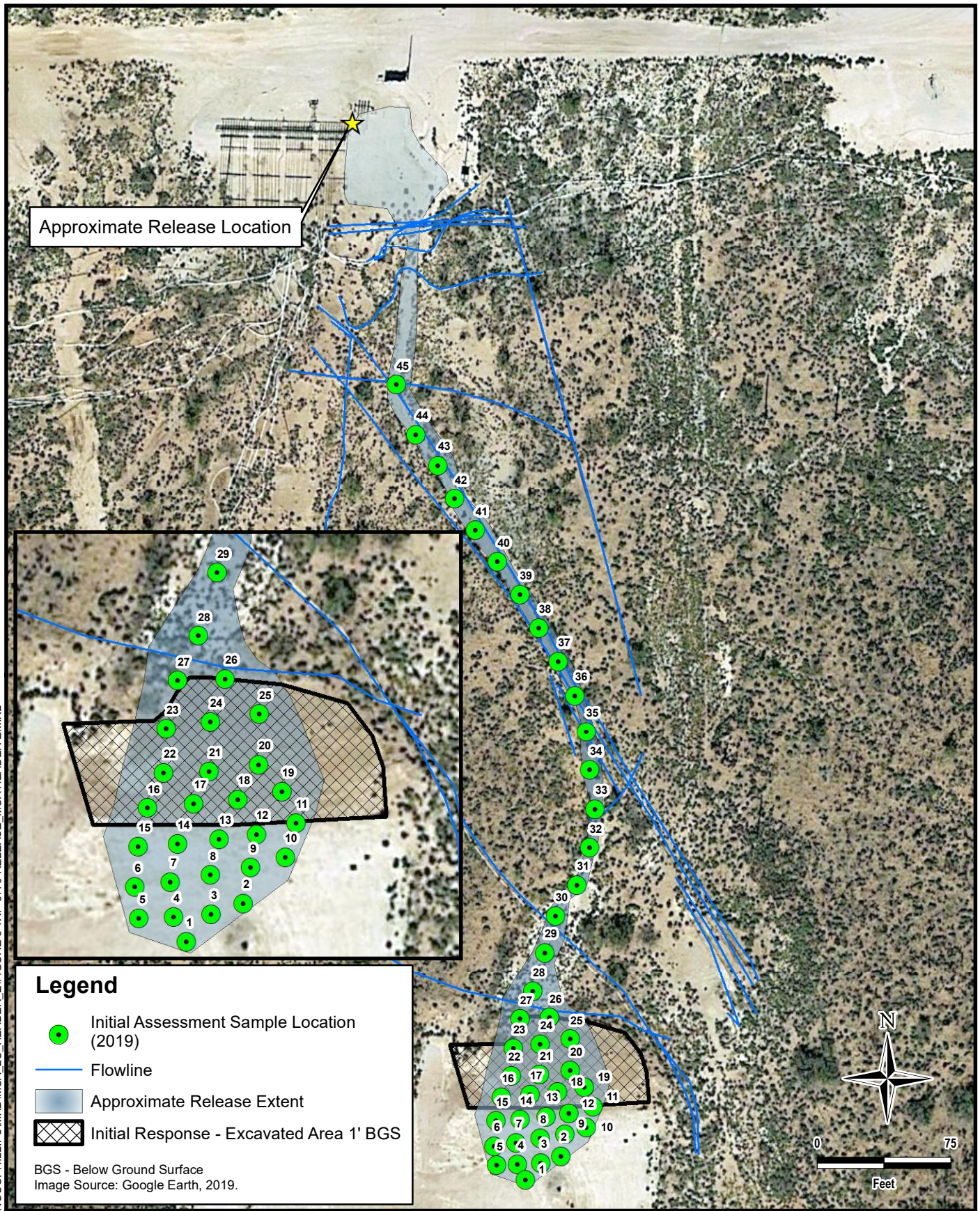
1RP-5779
(32.803741°, -103.769477°)
LEA COUNTY, NEW MEXICO

MCA 2-C HEADER FLANGE RELEASE
TOPOGRAPHIC MAP

PROJECT NO.:	212C-MD-02020
DATE:	SEPTEMBER 29, 2020
DESIGNED BY:	AAM

Figure No.
2



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\MCA_2C_HEADER_E\FIGURE 3 1RP-5779 RELEASE_MCA HEADER E.MXD

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www.tetratech.com

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

CONOCOPHILLIPS

1RP-5779
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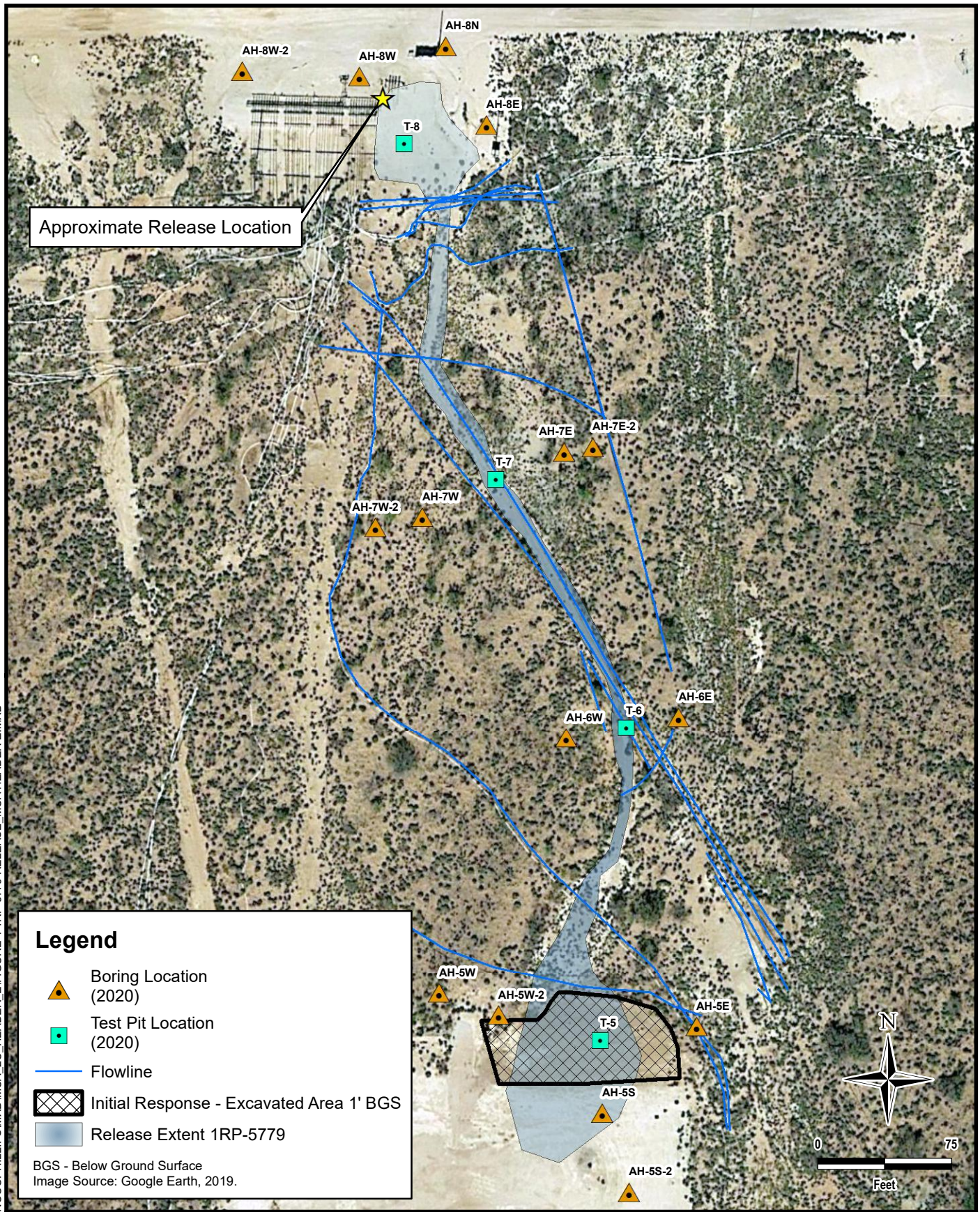
LEA COUNTY, NEW MEXICO

MCA 2-C HEADER FLANGE RELEASE
APPROXIMATE RELEASE EXTENT AND INITIAL RESPONSE

PROJECT NO.:	212C-MD-02119
DATE:	JUNE 30, 2021
DESIGNED BY:	AAM

Figure No.
3



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\MCA_2C_HEADER_E\FIGURE 4 1RP-5779 RELEASE_MCA HEADER E.MXD

TETRA TECH

www.tetratech.com

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

CONOCOPHILLIPS

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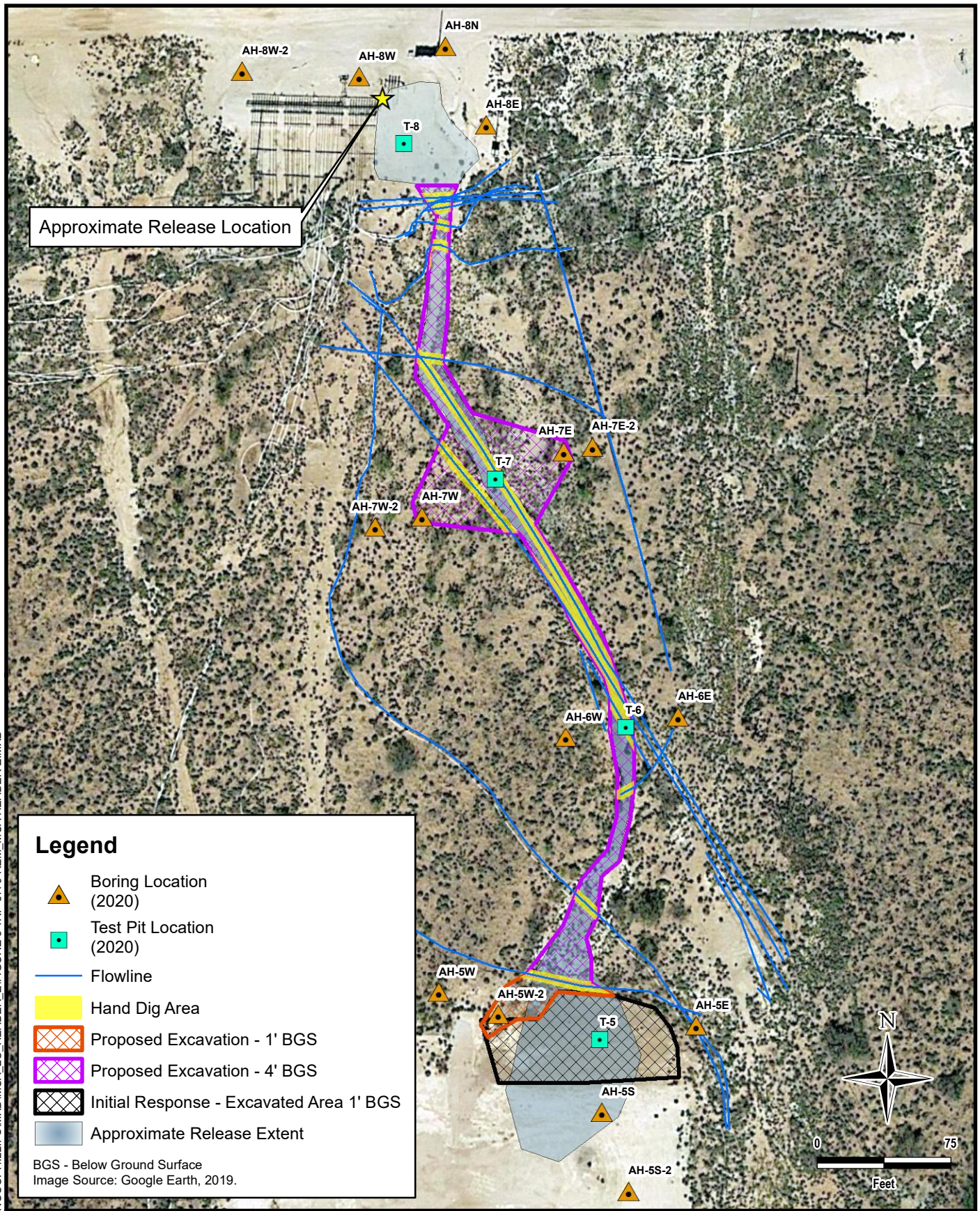
(32.803741°, -103.769477°)
LEA COUNTY, NEW MEXICO

MCA 2-C HEADER FLANGE RELEASE
SITE ASSESSMENT MAP

PROJECT NO.:	212C-MD-02119
DATE:	JUNE 30, 2021
DESIGNED BY:	AAM

Figure No.
4



Legend

- Boring Location (2020)
- Test Pit Location (2020)
- Flowline
- Hand Dig Area
- Proposed Excavation - 1' BGS
- Proposed Excavation - 4' BGS
- Initial Response - Excavated Area 1' BGS
- Approximate Release Extent

BGS - Below Ground Surface
Image Source: Google Earth, 2019.

DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\MCA_2C_HEADER_E\FIGURE 5 1RP-5779 REM_MCA HEADER E.MXD

TETRA TECH
www.tetratech.com
901 West Wall Street, Suite 100
Midland, Texas 79701
Phone: (432) 682-4559
Fax: (432) 682-3946

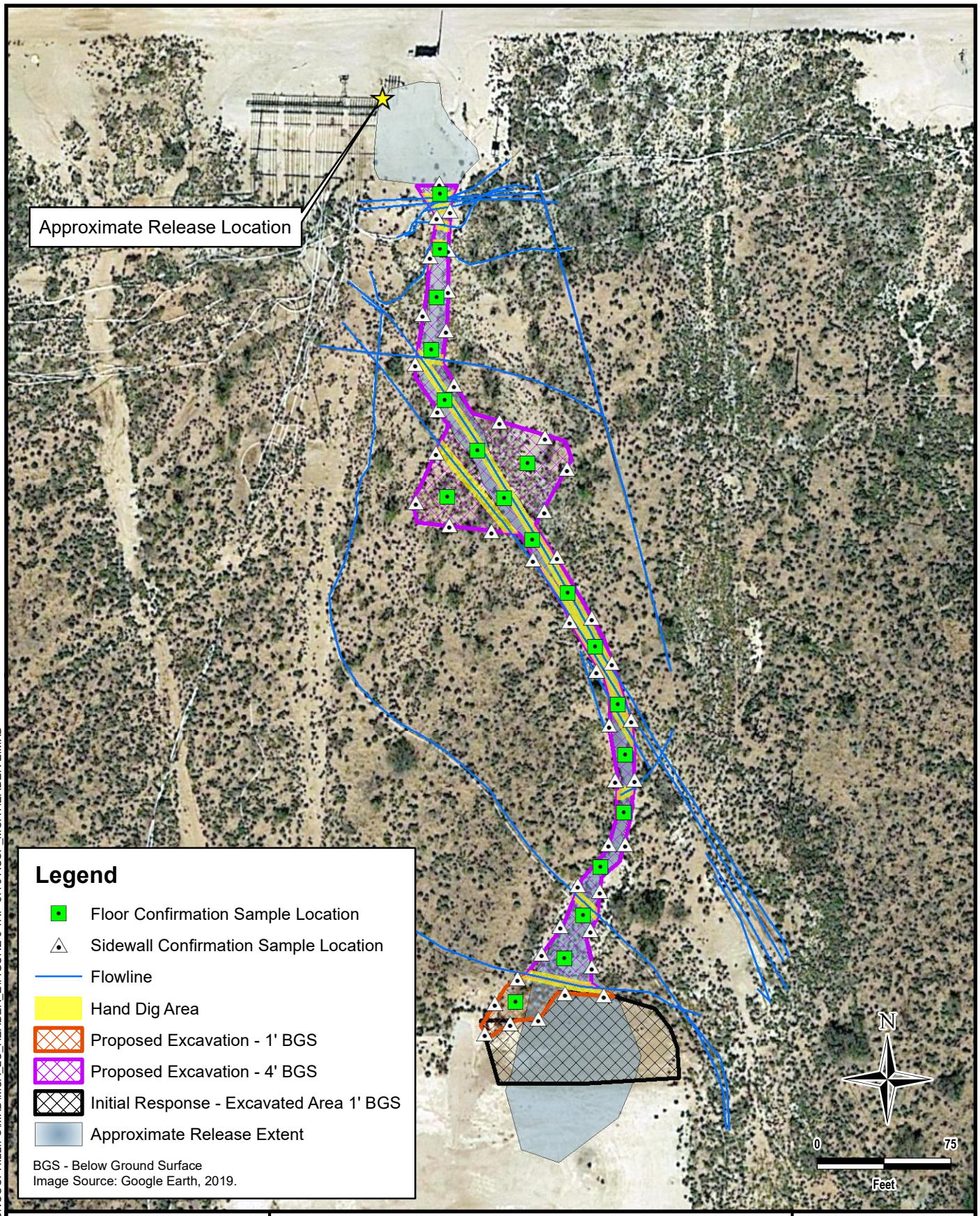
CONOCOPHILLIPS

1RP-5779
(32.803741°, -103.769477°)
LEA COUNTY, NEW MEXICO

MCA 2-C HEADER FLANGE RELEASE
PROPOSED REMEDIATION EXTENTS

PROJECT NO.:	212C-MD-02119
DATE:	JUNE 30, 2021
DESIGNED BY:	AAM

Figure No.
5



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\MCA_2C_HEADER_E\FIGURE 6 1RP-5779 ACSP_MCA HEADER E.MXD

TETRA TECH
www.tetratech.com
901 West Wall Street, Suite 100
Midland, Texas 79701
Phone: (432) 682-4559
Fax: (432) 682-3946

CONOCOPHILLIPS

1RP-5779
(32.803741°, -103.769477°)
LEA COUNTY, NEW MEXICO

MCA 2-C HEADER FLANGE RELEASE
ALTERNATIVE CONFIRMATION SAMPLING PLAN

PROJECT NO.:	212C-MD-02119
DATE:	JUNE 30, 2021
DESIGNED BY:	AAM

Figure No.
6

TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
INITIAL SOIL ASSESSMENT - 1RP-5779
CONOCOPHILLIPS
MCA 2C INJECTION HEADER FLANGE RELEASE - NRM1930950727
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride[1]	
		ft. bgs	mg/kg	Q
SP #1	10/23/2019	SURFACE	***16000***	
		2	32.0	
SP #2	10/23/2019	SURFACE	***864***	
		2	368	
SP #3	10/23/2019	SURFACE	***27600***	
		2	64.0	
SP #4	10/23/2019	SURFACE	64.0	
		2	***2720***	
SP #5	10/23/2019	SURFACE	48.0	
		2	224	
SP #6	10/23/2019	SURFACE	32.0	
		2	***2720***	
SP #7	10/23/2019	SURFACE	48.0	
		2	***8640***	
SP #8	10/23/2019	SURFACE	544	
		2	***800***	
SP #9	10/23/2019	SURFACE	***12800***	
		2	32.0	
SP #10	10/23/2019	SURFACE	***7040***	
		2	32.0	
SP #11	10/23/2019	SURFACE	***1890***	
		2	16.0	
SP #12	10/23/2019	SURFACE	16.0	
		2	32.0	
SP #13	10/23/2019	SURFACE	80.0	
		2	16.0	
SP #14	10/23/2019	SURFACE	***5520***	
		2	16.0	
SP #15	10/23/2019	SURFACE	***34000***	QM-07
		2	16.0	
SP #16	10/23/2019	SURFACE	***18400***	
		2	***656***	
SP #17	10/23/2019	SURFACE	***9730***	
		2	112	
SP #18	10/23/2019	SURFACE	***14600***	
		2	80.0	
SP #19	10/23/2019	SURFACE	***8130***	
		2	96.0	
SP #20	10/23/2019	SURFACE	336	
		2	***4560***	
SP #21	10/23/2019	SURFACE	***896***	
		2	64.0	
SP #22	10/23/2019	SURFACE	64.0	
		2	***1730***	
SP #23	10/23/2019	SURFACE	***3680***	
		2	320	
SP #24	10/23/2019	SURFACE	***3080***	
		2	336	
SP #25	10/23/2019	SURFACE	64.0	
		2	448	
SP #26	10/23/2019	SURFACE	***640***	
		2	***1740***	
SP #27	10/23/2019	SURFACE	< 16.0	
		2	< 16.0	
SP #28	10/23/2019	SURFACE	***4880***	
		2	***1550***	
SP #29	10/23/2019	SURFACE	16.0	
		2	16.0	
SP #30	10/23/2019	SURFACE	224	
		2	***2520***	
SP #31	10/23/2019	SURFACE	32.0	
		2	208	
SP #32	10/23/2019	SURFACE	16.0	
		2	224	
SP #33	10/23/2019	SURFACE	***3560***	
		2	***3040***	
SP #34	10/23/2019	SURFACE	***2440***	
		2	***1090***	
SP #35	10/23/2019	SURFACE	256	
		2	***1760***	
SP #36	10/23/2019	SURFACE	***1100***	
		2	***2360***	
SP #37	10/23/2019	SURFACE	***8260***	
		2	***816***	
SP #38	10/23/2019	SURFACE	96.0	
		2	***768***	
SP #39	10/23/2019	SURFACE	144	
		2	***1410***	
SP #40	10/23/2019	SURFACE	256	
		2	***1170***	
SP #41	10/23/2019	SURFACE	160	
		2	***608***	
SP #42	10/23/2019	SURFACE	128	
		2	448	
SP #43	10/23/2019	SURFACE	160	
		2	***880***	
SP #44	10/23/2019	SURFACE	***1630***	
		2	***880***	
SP #45	10/23/2019	SURFACE	***1780***	QM-07
		2	***752***	

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

1 Method SM4500Cl-B

Bold and italicized values indicate exceedance of proposed RRALs

QUALIFIERS:

QM-07 The spike recovery was outside acceptance limits for MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
ADDITIONAL SOIL ASSESSMENT - 1RP-5779
CONOCOPHILLIPS
MCA 2C INJECTION HEADER FLANGE RELEASE - NRM1930950727
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chloride[1]		BTEX[2]										TPH[3]							
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO[4] C_3 - C_{10}		DRO C_{10} - C_{28}		ORO C_{28} - C_{40}		Total TPH (GRO+DRO+ORO)	
		ft. bgs	ppm		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
T-5	3/5/2020	1-2	200	0.0	38.0		< 0.00105		< 0.00526		< 0.00263		< 0.00684		-		0.0350	B J	< 4.21		4.04	J	4.08	
		3-4	539	0.1	***628***		< 0.00114		< 0.00571		< 0.00285		< 0.00742		-		0.0649	B J	< 4.39		3.13	J	3.19	
		5-6	2500	0.0	2630		< 0.00110		< 0.00551		< 0.00276		< 0.00717		-		0.0670	J	< 1.78		7.83		7.90	
		7-8	250	0.0	233		< 0.00110		< 0.00552		< 0.00276		< 0.00717		-		0.0347	B J	< 4.42		1.56	J	1.59	
AH-5E	3/5/2020	0-1	50	0.0	2.50	J	< 0.00104		< 0.00521		< 0.00261		< 0.00678		-		0.0312	B J	9.00		33.3		42.3	
		3-4	34	0.0	209		< 0.00106		< 0.00529		< 0.00264		< 0.00687		-		< 0.106		3.18	J	8.05		11.2	
AH-5S	3/5/2020	0-1	220	0.0	38.2		< 0.00103		< 0.00515		< 0.00258		< 0.00670		-		0.0321	B J	133		391		***524***	
		3-4	270	-	84.6		< 0.00110		< 0.00552		< 0.00276		< 0.00717		-		< 0.110		309		793		***1102***	
AH-5S-2	7/8/2020	0-1	147	0.0	11.8	J	< 0.00141		< 0.00707		< 0.00354		< 0.00920		-		0.0282	J	< 4.83		4.44	B J	4.47	
		2-3	168	0.0	< 21.4		< 0.00107		< 0.00534		< 0.00267		< 0.00695		-		< 0.107		4.78		13.8		18.6	
AH-5W	3/5/2020	0-1	36	0.0	19.2		< 0.00102		< 0.00511		< 0.00256		< 0.00665		-		0.0273	B J	23.8		63.4		87.2	
		3-4	1290	-	33.7		< 0.00104		< 0.00520		< 0.00260		< 0.00676		-		0.0362	B J	18.5		6.18		24.7	
AH-5W-2	7/23/2020	0-1	75.5	2.7	11.4	J	< 0.00105		< 0.00526		< 0.00263		< 0.00683		-		0.0239	J	21.45		95.5		***117***	
		2-3	124	2.1	33.3		< 0.00102		< 0.00512		< 0.00256		< 0.00665		-		< 0.102		14.2		46.7		60.9	
T-6	3/5/2020	1-2	-	2.3	569		< 0.00111		< 0.00553		< 0.00277		< 0.00719		-		0.0265	B J	1250		969		***2219***	
		3-4	1250	0.6	--		--		--		--		--		-		NA		NA		NA		-	
		7-8	976	0.1	--		--		--		--		--		-		NA		NA		NA		-	
		9-10	823	-	722		< 0.00107		< 0.00535		< 0.00268		< 0.00696		-		0.0251	J	215		156		371	
AH-6E	3/5/2020	0-1	35	0.0	1.38	J	< 0.00104		< 0.00522		< 0.00261		< 0.00679		-		0.0323	B J	2.54	J	9.51		12.1	
		3-4	109	-	3.41	J	< 0.00105		< 0.00523		< 0.00262		< 0.00680		-		0.0247	B J	< 4.19		3.52	J	3.54	
AH-6W	3/5/2020	0-1	20	0.0	1.27	J	< 0.00107		< 0.00535		< 0.00268		< 0.00696		-		0.0324	B J	< 4.28		3.00	J	3.03	
		3-4	130	-	24.0		< 0.00108		< 0.00542		< 0.00271		< 0.00705		-		0.0788	B J	< 4.34		4.33	J	4.41	
T-7	3/5/2020	1-2	-	2.9	***1110***		< 0.00110		< 0.00550		< 0.00275		< 0.00715		-		0.0522	B J	2.45	J	8.45		11.0	
		3-4	1500	0.2	NA		--		--		--		--		-		NA		NA		NA		-	
		5-6	-	0.0	NA		--		--		--		--		-		NA		NA		NA		-	
		7-8	1300	-	NS		NS		NS		NS		NS		-		NS		NS		NS		-	
		9-10	1320	-	NA		--		--		--		--		-		NA		NA		NA		-	
		17.5	-	-	446		< 0.00105		< 0.00523		< 0.00262		< 0.00680		-		0.0392	B J	1.76	J	1.61	J	3.41	
AH-7E	3/5/2020	0-1	36	0.0	3.69	J	< 0.00106		< 0.00528		< 0.00264		< 0.00686		-		0.0548	B J	9.98		28.0		38.0	
		3-4	1250	0.0	***1780***		< 0.00115		< 0.00574		< 0.00287		< 0.00746		-		0.0422	B J	7.51		16.9		24.5	
AH-7E-2	7/8/2020	0-1	74	0.0	< 24.6		< 0.00146		< 0.00730		< 0.00365		< 0.00949		-		< 0.123		9.48		49.5		59.0	
		2-3	101	0.0	< 20.2		< 0.00101		< 0.00504		< 0.00252		< 0.00655		-		< 0.101		1.86	J	9.44		11.3	
AH-7W	3/5/2020	0-1	50	0.0	3.62	J	< 0.00106		< 0.00529		< 0.00264		< 0.00688		-		0.0546	B J	16.4		53.2		69.7	
		3-4	365	0.0	***1950***		< 0.00114		< 0.00571		< 0.00286		< 0.00743		-		0.0493	B J	8.71		18.5		27.3	
AH-7W-2	7/8/2020	0-1	97	0.0	< 20.1		< 0.00100		< 0.00502		< 0.00251		< 0.00652		-		0.0251	J	3.57	J	23.9		27.5	
		2-3	91	0.0	< 23.3		< 0.00133		< 0.00667		< 0.00333		< 0.00866		-		0.0304	J	2.80	J	14.7		17.5	
T-8	3/6/2020	1-2	1900	0.1	***1080***		< 0.00115		< 0.00574		< 0.00287		< 0.00746		-		0.0556	B J	324		633		***957***	
		3-4	-	0.0	***1580***		< 0.00111		< 0.00557		< 0.00278		< 0.00724		-		0.0442	B J	416		725		***1141***	
		5-6	-	-	NS		NS		NS		NS		NS		-		NS		NS		NS		-	
		7-8	1300	-	1360		< 0.00108		< 0.00538		< 0.00269		< 0.00699		-		0.0372	B J	6.49		7.75		14.3	
		9-10	1250	0.0	1320		< 0.00109		< 0.00545		< 0.00273		< 0.00709		-		0.0379	B J	24.2		44.4		68.6	
AH-8N	3/6/2020	0-1	68	0.1	40.3		< 0.00103		< 0.00514		< 0.00257		< 0.00668		-		0.0408	B J	2.19	J	7.68		9.91	
		3-4	450	0.0	174		< 0.00105		< 0.00525		< 0.00262		< 0.00682		-		0.0377	B J	< 4.20		3.30	J	3.34	
AH-8E	3/6/2020	0-1	780	0.0	381		< 0.00106		< 0.00528		< 0.00264		< 0.00687		-		0.0440	B J	10.3		30.8		41.1	
		3-4	350	0.0	71.0		< 0.00112		< 0.00559		< 0.00280		< 0.00727		-		0.0439	B J	10.6		31.3		41.9	
AH-8W	3/6/2020	0-1	400	1.4	158		< 0.00112		< 0.00561		< 0.00280		< 0.00729		-		0.0381	B J	726		1260		***1986***	
		3-4	324	0.0	40.3		< 0.00112		< 0.00559		< 0.00280		< 0.00727		-		0.0422	B J	2.09	J	2.72	J	4.85	
AH-8W-2	7/8/2020	0-1	222	0.0	16.6	J	< 0.00101		< 0.00504		< 0.00252		< 0.00655		-		< 0.101		7.36		40.1		47.5	
		2-3	389	0.0	53.9		0.000717	J	0.00141	J	< 0.00256		0.00102	J	0.00315		< 0.102		7.58		37.6		45.2	

NOTES:

ft. Feet
bgs Below ground surface
ppm Parts per million
mg/kg Milligrams per kilogram
NS Not sampled
NA Sample not analyzed
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics
ORO Oil range organics

Bold and italicized values indicate exceedance of proposed RRALs

Shaded rows indicate depth intervals proposed for excavation and remediation.

QUALIFIERS:

B The same analyte is found in the associated blank.
J The identification of the analyte is acceptable; the reported value is an estimate.
J3 The associated batch QC was outside established quality control range for precision.
T8 Sample(s) received past/too close to holding time expiration.
V3 The internal standard exhibited poor recovery due to sample matrix interference. The analytical results will be biased high. BDL results will be unaffected.

APPENDIX A
C-141 Forms

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

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NRM1930950727
District RP	1RP-5779
Facility ID	fCOH0815142265
Application ID	pRM1930950218

Release Notification

Responsible Party

Responsible Party ConocoPhillips Company	OGRID 217817
Contact Name Gustavo Fejervary	Contact Telephone 432/210-7037
Contact email g.fejervary@cop.com	Incident # *(assigned by OCD)*
Contact mailing address 5735 SW 7000 Andrews, TX 79714	

Location of Release Source

Latitude 32.80360 Longitude -103.77100
(NAD 83 in decimal degrees to 5 decimal places)

Site Name MCA-2C Injection Header	Site Type Injection Header
Date Release Discovered 10/2/19	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
J	28	17S	R32E	Lea

Surface Owner: ☐ State ☑ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☑ Crude Oil	Volume Released (bbls) 12.3	Volume Recovered (bbls) 1
☑ Produced Water	Volume Released (bbls) 110.7	Volume Recovered (bbls) 7
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Gasket on the Header leaked on the flange valve.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NRM1930950727
District RP	1RP-5779
Facility ID	fCOH0815142265
Application ID	pRM1930950218

Was this a major release as defined by 19.15.29.7(A) NMAC? ☑ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? it was more than 25 bbls. ((40'X50X2")+(450'X7'X3")+(118'X100'X4"))X13.57%= 123BBLS 13.57%= SOIL SATURATION AFTER 0.5" RAIN IN LAST 24 HRS

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

It was given on 10/3/19 to district 1 email address and Bradford Billings

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☑ The source of the release has been stopped.
☑ The impacted area has been secured to protect human health and the environment.
☑ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☑ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Gustavo Fejervary Title: Environmental Coordinator

Signature: Date: 10/11/19

email: g.fejervary@cop.com Telephone: 432/210-7037

OCD Only

Received by: Ramona Marcus Date: 11/5/2019

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

APPENDIX B
Site Characterization Data

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

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
RA 12721 POD2	RA	LE	1	1	4	28	17S	32E	615055	3630407	256	124	75	49
RA 12721 POD3	RA	LE	2	3	4	28	17S	32E	615417	3629979	304	115		
RA 12721 POD5	RA	LE	2	4	4	28	17S	32E	615650	3629961	502	130	124	6
RA 12721 POD1	RA	LE	3	2	3	28	17S	32E	614645	3630141	565	125		
RA 12721 POD4	RA	LE	1	1	2	33	17S	32E	615055	3629589	628	140		

Average Depth to Water: **99 feet**

Minimum Depth: **75 feet**

Maximum Depth: **124 feet**

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 615207 **Northing (Y):** 3630200 **Radius:** 800

MCA 2C Injection Header Flange Release

212C-MD-02119
1RP-5779

Legend

- High
- Low
- Medium

Lovingt

Lea

MCA 2C Injection Header Flange Release

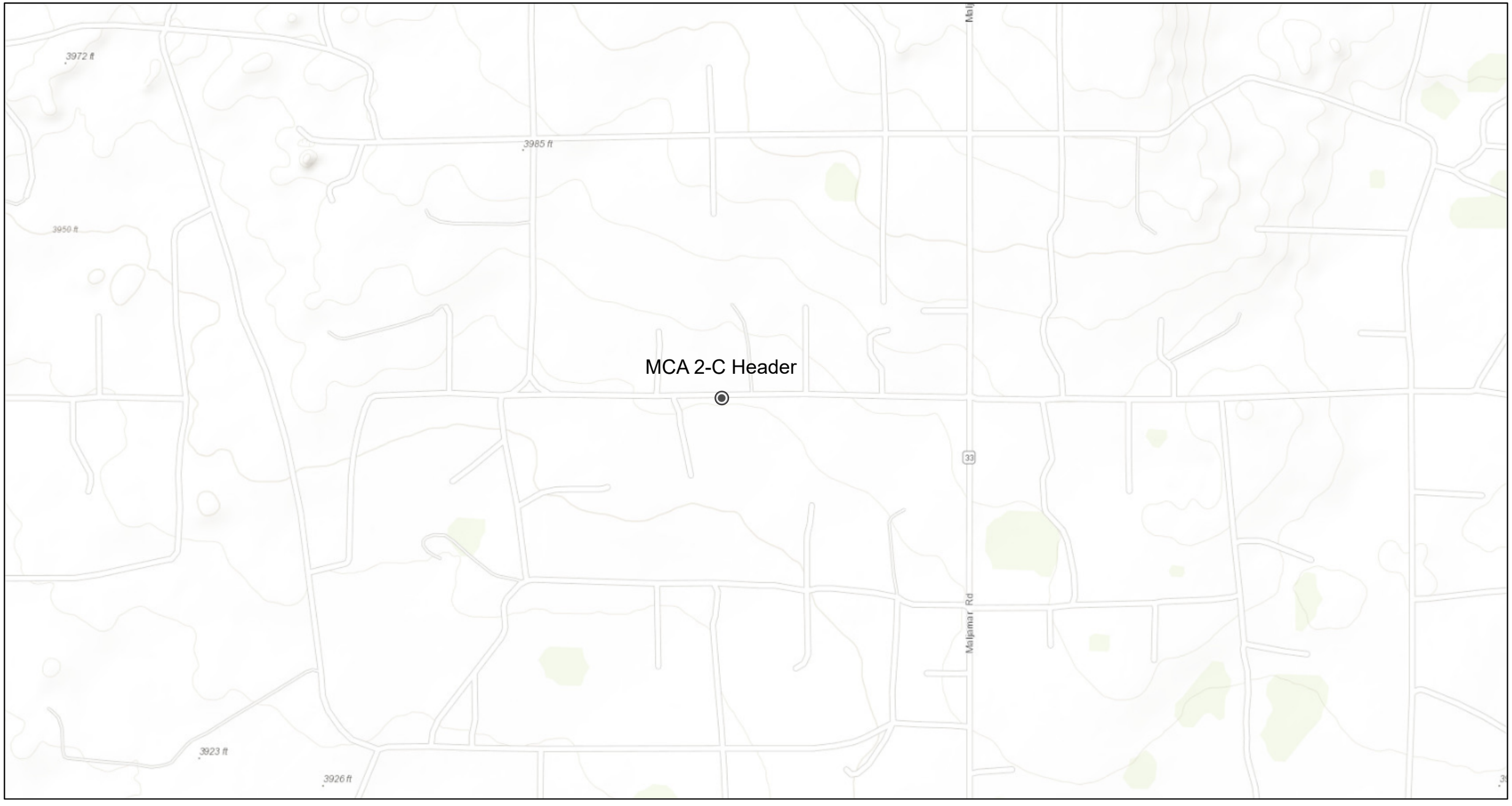
FS-4 FS-1

Google Earth

N

10 mi

MCA 2-C Header



3/27/2020, 12:37:39 PM

Override 1
New Mexico Counties
New Mexico Towns
NMDOT GPS ROADS
NMDOT Railroads
OSE Water-bodies
PLJV Probable Playas
OSE Streams

1:10,144

0 0.1 0.2 0.4 mi

0 0.15 0.3 0.6 km

US Census Bureau, NMDOT, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the

APPENDIX C
Laboratory Analytical Data

CARDINAL Laboratories

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

October 30, 2019

JUSTIN WRIGHT

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: MCA 2C HEADER

Enclosed are the results of analyses for samples received by the laboratory on 10/25/19 11:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/25/2019	Sampling Date:	10/23/2019
Reported:	10/30/2019	Sampling Type:	Soil
Project Name:	MCA 2C HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC -LEA COUNTY NM		

Sample ID: SP #1 - SURFACE (H903659-01)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16000**	16.0	10/28/2019	ND	416	104	400	0.00	

Sample ID: SP #1 - 2' (H903659-02)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	10/28/2019	ND	416	104	400	0.00	

Sample ID: SP #2 - SURFACE (H903659-03)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**864**	16.0	10/28/2019	ND	416	104	400	0.00	

Sample ID: SP #2 - 2' (H903659-04)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**368**	16.0	10/28/2019	ND	416	104	400	0.00	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	10/25/2019	Sampling Date:	10/23/2019
Reported:	10/30/2019	Sampling Type:	Soil
Project Name:	MCA 2C HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC -LEA COUNTY NM		

Sample ID: SP #3 - SURFACE (H903659-05)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**27600**	16.0	10/28/2019	ND	416	104	400	0.00	

Sample ID: SP #3 - 2' (H903659-06)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	10/28/2019	ND	416	104	400	0.00	

Sample ID: SP #4 - SURFACE (H903659-07)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	10/28/2019	ND	416	104	400	0.00	

Sample ID: SP #4 - 2' (H903659-08)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2720**	16.0	10/28/2019	ND	416	104	400	0.00	

Sample ID: SP #5 - SURFACE (H903659-09)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	10/29/2019	ND	416	104	400	3.92	

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Analytical Results For:

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

Received:	10/25/2019	Sampling Date:	10/23/2019
Reported:	10/30/2019	Sampling Type:	Soil
Project Name:	MCA 2C HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC -LEA COUNTY NM		

Sample ID: SP #5 - 2' (H903659-10)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**224**	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #6 - SURFACE (H903659-11)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #6 - 2' (H903659-12)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2720**	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #7 - SURFACE (H903659-13)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #7 - 2' (H903659-14)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**8640**	16.0	10/29/2019	ND	416	104	400	3.92	

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Analytical Results For:

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

Received:	10/25/2019	Sampling Date:	10/23/2019
Reported:	10/30/2019	Sampling Type:	Soil
Project Name:	MCA 2C HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC -LEA COUNTY NM		

Sample ID: SP #8 - SURFACE (H903659-15)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**544**	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #8 - 2' (H903659-16)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**800**	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #9 - SURFACE (H903659-17)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**12800**	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #9 - 2' (H903659-18)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #10 - SURFACE (H903659-19)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**7040**	16.0	10/29/2019	ND	416	104	400	3.92	

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

Received:	10/25/2019	Sampling Date:	10/23/2019
Reported:	10/30/2019	Sampling Type:	Soil
Project Name:	MCA 2C HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC -LEA COUNTY NM		

Sample ID: SP #10 - 2' (H903659-20)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #11 - SURFACE (H903659-21)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1890**	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #11 - 2' (H903659-22)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #12 - SURFACE (H903659-23)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #12 - 2' (H903659-24)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	10/29/2019	ND	416	104	400	3.92	

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

Analytical Results For:

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

Received:	10/25/2019	Sampling Date:	10/23/2019
Reported:	10/30/2019	Sampling Type:	Soil
Project Name:	MCA 2C HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC -LEA COUNTY NM		

Sample ID: SP #13 - SURFACE (H903659-25)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #13 - 2' (H903659-26)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #14 - SURFACE (H903659-27)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5520**	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #14 - 2' (H903659-28)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #15 - SURFACE (H903659-29)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**34000**	16.0	10/29/2019	ND	416	104	400	0.00	QM-07

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

Analytical Results For:

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

Received:	10/25/2019	Sampling Date:	10/23/2019
Reported:	10/30/2019	Sampling Type:	Soil
Project Name:	MCA 2C HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC -LEA COUNTY NM		

Sample ID: SP #15 - 2' (H903659-30)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #16 - SURFACE (H903659-31)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**18400**	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #16 - 2' (H903659-32)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**656**	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #17 - SURFACE (H903659-33)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**9730**	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #17 - 2' (H903659-34)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	10/29/2019	ND	416	104	400	0.00	

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Analytical Results For:

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

Received:	10/25/2019	Sampling Date:	10/23/2019
Reported:	10/30/2019	Sampling Type:	Soil
Project Name:	MCA 2C HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC -LEA COUNTY NM		

Sample ID: SP #18 - SURFACE (H903659-35)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**14600**	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #18 - 2' (H903659-36)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #19 - SURFACE (H903659-37)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**8130**	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #19 - 2' (H903659-38)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #20 - SURFACE (H903659-39)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**336**	16.0	10/29/2019	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

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

Received:	10/25/2019	Sampling Date:	10/23/2019
Reported:	10/30/2019	Sampling Type:	Soil
Project Name:	MCA 2C HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC -LEA COUNTY NM		

Sample ID: SP #20 - 2' (H903659-40)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4560**	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #21 - SURFACE (H903659-41)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**896**	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #21 - 2' (H903659-42)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #22 - SURFACE (H903659-43)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #22 - 2' (H903659-44)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1730**	16.0	10/29/2019	ND	416	104	400	0.00	

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Analytical Results For:

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

Received:	10/25/2019	Sampling Date:	10/23/2019
Reported:	10/30/2019	Sampling Type:	Soil
Project Name:	MCA 2C HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC -LEA COUNTY NM		

Sample ID: SP #23 - SURFACE (H903659-45)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3680**	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #23 - 2' (H903659-46)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**320**	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #24 - SURFACE (H903659-47)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3080**	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #24 - 2' (H903659-48)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**336**	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #25 - SURFACE (H903659-49)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	10/30/2019	ND	400	100	400	3.92	

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

Received:	10/25/2019	Sampling Date:	10/23/2019
Reported:	10/30/2019	Sampling Type:	Soil
Project Name:	MCA 2C HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC -LEA COUNTY NM		

Sample ID: SP #25 - 2' (H903659-50)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**448**	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #26 - SURFACE (H903659-51)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**640**	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #26 - 2' (H903659-52)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1740**	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #27 - SURFACE (H903659-53)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #27 - 2' (H903659-54)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/30/2019	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

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

Received:	10/25/2019	Sampling Date:	10/23/2019
Reported:	10/30/2019	Sampling Type:	Soil
Project Name:	MCA 2C HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC -LEA COUNTY NM		

Sample ID: SP #28 - SURFACE (H903659-55)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4880**	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #28 - 2' (H903659-56)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1550**	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #29 - SURFACE (H903659-57)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #29 - 2' (H903659-58)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #30 - SURFACE (H903659-59)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**224**	16.0	10/30/2019	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

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

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Reported:	10/30/2019	Sampling Type:	Soil
Project Name:	MCA 2C HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC -LEA COUNTY NM		

Sample ID: SP #30 - 2' (H903659-60)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2520**	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #31 - SURFACE (H903659-61)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #31 - 2' (H903659-62)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**208**	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #32 - SURFACE (H903659-63)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #32 - 2' (H903659-64)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**224**	16.0	10/30/2019	ND	400	100	400	3.92	

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Analytical Results For:

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

Received:	10/25/2019	Sampling Date:	10/23/2019
Reported:	10/30/2019	Sampling Type:	Soil
Project Name:	MCA 2C HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC -LEA COUNTY NM		

Sample ID: SP #33 - SURFACE (H903659-65)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3560**	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #33 - 2' (H903659-66)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3040**	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #34 - SURFACE (H903659-67)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2440**	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #34 - 2' (H903659-68)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1090**	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #35 - SURFACE (H903659-69)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**256**	16.0	10/30/2019	ND	432	108	400	3.77	

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Analytical Results For:

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

Received:	10/25/2019	Sampling Date:	10/23/2019
Reported:	10/30/2019	Sampling Type:	Soil
Project Name:	MCA 2C HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC -LEA COUNTY NM		

Sample ID: SP #35 - 2' (H903659-70)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1760**	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #36 - SURFACE (H903659-71)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1100**	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #36 - 2' (H903659-72)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2360**	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #37 - SURFACE (H903659-73)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**8260**	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #37 - 2' (H903659-74)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**816**	16.0	10/30/2019	ND	432	108	400	3.77	

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Analytical Results For:

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

Received:	10/25/2019	Sampling Date:	10/23/2019
Reported:	10/30/2019	Sampling Type:	Soil
Project Name:	MCA 2C HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC -LEA COUNTY NM		

Sample ID: SP #38 - SURFACE (H903659-75)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #38 - 2' (H903659-76)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**768**	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #39 - SURFACE (H903659-77)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #39 - 2' (H903659-78)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1410**	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #40 - SURFACE (H903659-79)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**256**	16.0	10/30/2019	ND	432	108	400	3.77	

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

Analytical Results For:

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

Received:	10/25/2019	Sampling Date:	10/23/2019
Reported:	10/30/2019	Sampling Type:	Soil
Project Name:	MCA 2C HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC -LEA COUNTY NM		

Sample ID: SP #40 - 2' (H903659-80)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1170**	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #41 - SURFACE (H903659-81)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #41 - 2' (H903659-82)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**608**	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #42 - SURFACE (H903659-83)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #42 - 2' (H903659-84)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**448**	16.0	10/30/2019	ND	432	108	400	3.77	

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Analytical Results For:

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

Received:	10/25/2019	Sampling Date:	10/23/2019
Reported:	10/30/2019	Sampling Type:	Soil
Project Name:	MCA 2C HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC -LEA COUNTY NM		

Sample ID: SP #43 - SURFACE (H903659-85)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #43 - 2' (H903659-86)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**880**	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #44 - SURFACE (H903659-87)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1630**	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #44 - 2' (H903659-88)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**880**	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #45 - SURFACE (H903659-89)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1780**	16.0	10/30/2019	ND	432	108	400	0.00	QM-07

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Analytical Results For:

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

Received:	10/25/2019	Sampling Date:	10/23/2019
Reported:	10/30/2019	Sampling Type:	Soil
Project Name:	MCA 2C HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC -LEA COUNTY NM		

Sample ID: SP #45 - 2' (H903659-90)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**752**	16.0	10/30/2019	ND	432	108	400	0.00	

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Notes and Definitions

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

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	ConocoPhillips	BILL TO	
Project Manager:	Justin Wright	P.O. #:	
Address:		Company:	ConocoPhillips
City:	Hobbs St NM Zip: #	Attn:	
Phone #:	575-631-9092 Fax #:	Address:	
Project #:	Project Owner: COPC	City:	
Project Name:	MCA 2C Header	State: Zip:	
Project Location:	Lea County, NM	Phone #:	
Sampler Name:	Justin Wright	Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: Chlorides
H903659															
1	SP#1 - Surface	G				*					*		10-23		✓
2	SP#1 - 2'	G				*					*		10-23		✓
3	SP#2 - Surface	G				*					*		10-23		✓
4	SP#2 - 2'	G				*					*		10-23		✓
5	SP#3 - Surface	G				*					*		10-23		✓
6	SP#3 - 2'	G				*					*		10-23		✓
7	SP#4 - Surface	G				*					*		10-23		✓
8	SP#4 - 2'	G				*					*		10-23		✓
9	SP#5 - Surface	G				*					*		10-23		✓
10	SP#5 - 2'	G				*					*		10-23		✓

Relinquished By:	Date: 10-25-19 Time: 11:15	Received By: Tamara Oldaker	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address:
Relinquished By:	Date: Time:	Received By:	REMARKS:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C -4.9 Corrected Temp. °C -4.4	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials) T.O.	Turnaround Time: Standard ☑ Rush ☐ Thermometer ID #97 Correction Factor +0.4 °C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No — Observed Temp. °C — Corrected Temp. °C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	ConocoPhillips	BILL TO	
Project Manager:	Justin Wright	P.O. #:	
Address:		Company:	ConocoPhillips
City:	Hobbs St NM Zip: #	Attn:	
Phone #:	575-631-9092 Fax #:	Address:	
Project #:	Project Owner: COPC	City:	
Project Name:		State:	Zip:
Project Location:		Phone #:	
Sampler Name:	Justin Wright	Fax #:	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlorides
H903659															
11	SP#6 - Surface	G				*					*		10-23		✓
12	SP#6 - 2'	G				*					*		10-23		✓
13	SP# 7 - Surface	G				*					*		10-23		✓
14	SP# 7 - 2'	G				*					*		10-23		✓
15	SP#8 - Surface	G				*					*		10-23		✓
16	SP#8 - 2'	G				*					*		10-23		✓
17	SP#9 - Surface	G				*					*		10-23		✓
18	SP#9 - 2'	G				*					*		10-23		✓
19	SP#10 - Surface	G				*					*		10-23		✓
20	SP#10 - 2'	G				*					*		10-23		✓

Relinquished By:	Date: 10-25-19 Time: 1115	Received By: Tamara Oldaker	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
			All Results are emailed. Please provide Email address:
Relinquished By:	Date: Time:	Received By:	REMARKS:

Delivered By: (Circle One)	Observed Temp. °C -4.9	Sample Condition Cool Intact	CHECKED BY: (Initials)	Turnaround Time: Standard ✓ Rush ☐	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C -4.4	☑ Yes ☑ Yes ☐ No ☐ No	TO	Thermometer ID #97 Correction Factor +0.4 °C	☐ Yes ☐ Yes ☐ No ☐ No Corrected Temp. °C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	ConocoPhillips	BILL TO	
Project Manager:	Justin Wright	P.O. #:	
Address:		Company:	ConocoPhillips
City:	Hobbs St NM Zip: #	Attn:	
Phone #:	575-631-9092 Fax #:	Address:	
Project #:	Project Owner: COPC	City:	
Project Name:	MCA 2C Header	State: Zip:	
Project Location:	Lea County, NM	Phone #:	
Sampler Name:	Justin Wright	Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: Chlorides											
H903659																										
21	SP #11 - Surface	G				*					*		10-23		✓											
22	SP #11 - 2'	G				*					*		10-23		✓											
23	SP #12 - Surface	G				*					*		10-23		✓											
24	SP #12 - 2'	G				*					*		10-23		✓											
25	SP #13 - Surface	G				*					*		10-23		✓											
26	SP #13 - 2'	G				*					*		10-23		✓											
27	SP #14 - Surface	G				*					*		10-23		✓											
28	SP #14 - 2'	G				*					*		10-23		✓											
29	SP #15 - Surface	G				*					*		10-23		✓											
30	SP #15 - 2'	G				*					*		10-23		✓											

Relinquished By:	Date: 10-25-19 Time: 11:15	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address:
Relinquished By:	Date: Time:	Received By:	REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 4.9 Corrected Temp. °C 4.4	Sample Condition Cool: ☑ Yes ☐ No Intact: ☐ Yes ☑ No	CHECKED BY: (Initials) TO
Turnaround Time: Standard ☑ Rush ☐ Thermometer ID #97 Correction Factor + 0.4 °C	Bacteria (only) Sample Condition Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No	Observed Temp. °C Corrected Temp. °C	

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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	ConocoPhillips	BILL TO	
Project Manager:	Justin Wright	P.O. #:	
Address:		Company:	ConocoPhillips
City:	Hobbs St NM Zip: #	Attn:	
Phone #:	575-631-9092 Fax #:	Address:	
Project #:	Project Owner: COPC	City:	
Project Name:	MCA 2C Header	State: Zip:	
Project Location:	Lea County, NM	Phone #:	
Sampler Name:	Justin Wright	Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: Chlorides
H903659															
31	SP#16 - Surface	G				*					*		10-23		✓
32	SP#16 - 2'	G				*					*		10-23		✓
33	SP#17 - Surface	G				*					*		10-23		✓
34	SP#17 - 2'	G				*					*		10-23		✓
35	SP#18 - Surface	G				*					*		10-23		✓
36	SP#18 - 2'	G				*					*		10-23		✓
37	SP#19 - Surface	G				*					*		10-23		✓
38	SP#19 - 2'	G				*					*		10-23		✓
39	SP#20 - Surface	G				*					*		10-23		✓
40	SP#20 - 2'	G				*					*		10-23		✓

Relinquished By:	Date: 10-25-19 Time: 1115	Received By: Tamara Oldaker	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address:
Relinquished By:	Date: Time:	Received By:	REMARKS:

Delivered By: (Circle One)	Observed Temp. °C 4.9	Sample Condition: Cool Yes ☑ Intact Yes ☑	CHECKED BY: (Initials) TO	Turnaround Time: Standard ☑ Rush ☐
Sampler - UPS - Bus - Other:	Corrected Temp. °C 4.4	Cool No ☐ Intact No ☐		Thermometer ID #97 Correction Factor + 0.4 °C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	ConocoPhillips	**BILL TO**	
Project Manager:	Justin Wright	P.O. #:	
Address:		Company:	ConocoPhillips
City:	Hobbs	St NM Zip: #	Attn:
Phone #:	575-631-9092	Fax #:	Address:
Project #:		Project Owner: COPC	City:
Project Name:	MCA 2C Header		State: Zip:
Project Location:	Lea County, NM		Phone #:
Sampler Name:	Justin Wright		Fax #:

FOR LAB USE ONLY				MATRIX							PRESERV.			SAMPLING		ANALYSIS REQUEST
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlorides
H903659															
41	SP#21-Surface	G				*					*		10-23		✓
42	SP#21-2'	G				*					*		10-23		✓
43	SP#22-Surface	G				*					*		10-23		✓
44	SP#22-2'	G				*					*		10-23		✓
45	SP#23-Surface	G				*					*		10-23		✓
46	SP#23-2'	G				*					*		10-23		✓
47	SP#24-Surface	G				*					*		10-23		✓
48	SP#24-2'	G				*					*		10-23		✓
49	SP#25-Surface	G				*					*		10-23		✓
50	SP#25-2'	G				*					*		10-23		✓

Relinquished By:	Date: 10/05/19	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 11:15		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		

Delivered By: (Circle One)	Observed Temp. °C 4.9	Sample Condition Cool Intact	CHECKED BY: (Initials)	Turnaround Time: Standard ☑ Rush ☐
Sampler - UPS - Bus - Other:	Corrected Temp. °C 4.4	☑ Yes ☑ Yes ☐ No ☐ No	JD	Thermometer ID #97 Correction Factor + 0.4 °C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C ____ Corrected Temp. °C ____

FORM-006 R 3.0

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CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	ConocoPhillips	**BILL TO**	
Project Manager:	Justin Wright	P.O. #:	
Address:		Company:	ConocoPhillips
City:	Hobbs St NM Zip: #	Attn:	
Phone #:	575-631-9092 Fax #:	Address:	
Project #:	Project Owner: COPC	City:	
Project Name:	MCA 2C Header	State: Zip:	
Project Location:	Lea County, NM	Phone #:	
Sampler Name:	Justin Wright	Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: Chlorides
H903659															
51	SP#26 - Surface	G				*					*		10-23		✓
52	SP#26 - 2'	G				*					*		10-23		✓
53	SP#27 - Surface	G				*					*		10-23		✓
54	SP#27 - 2'	G				*					*		10-23		✓
55	SP#28 - Surface	G				*					*		10-23		✓
56	SP#28 - 2'	G				*					*		10-23		✓
57	SP#29 - Surface	G				*					*		10-23		✓
58	SP#29 - 2'	G				*					*		10-23		✓
59	SP#30 - Surface	G				*					*		10-23		✓
60	SP#30 - 2'	G				*					*		10-23		✓

Relinquished By:	Date: 10-25-19 Time: 11:15	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
			All Results are emailed. Please provide Email address:
Relinquished By:	Date: Time:	Received By:	REMARKS:

Delivered By: (Circle One)	Observed Temp. °C 4.9	Sample Condition Cool ☑ Yes Intact ☑ Yes	CHECKED BY: (Initials)	Turnaround Time: Standard ☑ Rush ☐
Sampler - UPS - Bus - Other:	Corrected Temp. °C -4.4	☐ No ☐ No	T.O.	Thermometer ID #97 Correction Factor +0.4 °C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	ConocoPhillips	BILL TO	
Project Manager:	Justin Wright	P.O. #:	
Address:		Company:	ConocoPhillips
City:	Hobbs St NM Zip: #	Attn:	
Phone #:	575-631-9092 Fax #:	Address:	
Project #:	Project Owner: COPC	City:	
Project Name:	MCA 2C Header	State: Zip:	
Project Location:	Lea County, NM	Phone #:	
Sampler Name:	Justin Wright	Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: Chlorides
H903659															
61	SP#31 - Surface	G				*					*		10-23		✓
62	SP#31 - 2'	G				*					*		10-23		✓
63	SP#32 - Surface	G				*					*		10-23		✓
64	SP#32 - 2'	G				*					*		10-23		✓
65	SP#33 - Surface	G				*					*		10-23		✓
66	SP#33 - 2'	G				*					*		10-23		✓
67	SP#34 - Surface	G				*					*		10-23		✓
68	SP#34 - 2'	G				*					*		10-23		✓
69	SP#35 - Surface	G				*					*		10-23		✓
70	SP#35 - 2'	G				*					*		10-23		✓

Relinquished By:	Date: 10-25-19 Time: 11:15	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address:
Relinquished By:	Date: Time:	Received By:	REMARKS:

Delivered By: (Circle One)	Observed Temp. °C -4.9	Sample Condition Cool Intact	CHECKED BY: (Initials)	Turnaround Time: Standard ☑ Rush ☐	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C -4.4	☑ Yes ☑ Yes ☐ No ☐ No	TO	Thermometer ID #97 Correction Factor +0.4 °C	☐ Yes ☐ Yes ☐ No ☐ No Corrected Temp. °C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	ConocoPhillips	**BILL TO**	ANALYSIS REQUEST
Project Manager:	Justin Wright	P.O. #:	
Address:		Company:	ConocoPhillips
City:	Hobbs St NM Zip: #	Attn:	
Phone #:	575-631-9092 Fax #:	Address:	
Project #:	Project Owner: COPC	City:	
Project Name:	MCA 2C Header	State: Zip:	
Project Location:	Lea County, NM	Phone #:	
Sampler Name:	Justin Wright	Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	Chlorides
H903659															
71	SP#36-Surface	G				*					*		10-23		✓
72	SP#36-2'	G				*					*		10-23		✓
73	SP#37-Surface	G				*					*		10-23		✓
74	SP#37-2'	G				*					*		10-23		✓
75	SP#38-Surface	G				*					*		10-23		✓
76	SP#38-2'	G				*					*		10-23		✓
77	SP#39-Surface	G				*					*		10-23		✓
78	SP#39-2'	G				*					*		10-23		✓
79	SP#40-Surface	G				*					*		10-23		✓
80	SP#40-2'	G				*					*		10-23		✓

Relinquished By:	Date: 10-25-19 Time: 11:15	Received By: Tamara Oldaker	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
			All Results are emailed. Please provide Email address:
Relinquished By:	Date: Time:	Received By:	REMARKS:

Delivered By: (Circle One)	Observed Temp. °C -4.9	Sample Condition Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No	CHECKED BY: (Initials) TO	Turnaround Time: Standard ☑ Rush ☐
Sampler - UPS - Bus - Other:	Corrected Temp. °C -4.4			Thermometer ID #97 Correction Factor +0.4 °C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No; Observed Temp. °C; Corrected Temp. °C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	ConocoPhillips	BILL TO	
Project Manager:	Justin Wright	P.O. #:	
Address:		Company:	ConocoPhillips
City:	Hobbs St NM Zip: #	Attn:	
Phone #:	575-631-9092 Fax #:	Address:	
Project #:	Project Owner: COPC	City:	
Project Name:	MCA 2C Header	State: Zip:	
Project Location:	Lea County, NM	Phone #:	
Sampler Name:	Justin Wright	Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: Chlorides
H903659															
81	SP#41 - Surface	G				*					*		10-23		✓
82	SP#41 - 2'	G				*					*		10-23		✓
83	SP#42 - Surface	G				*					*		10-23		✓
84	SP#42 - 2'	G				*					*		10-23		✓
85	SP#43 - Surface	G				*					*		10-23		✓
86	SP#43 - 2'	G				*					*		10-23		✓
87	SP#44 - Surface	G				*					*		10-23		✓
88	SP#44 - 2'	G				*					*		10-23		✓
89	SP#45 - Surface	G				*					*		10-23		✓
90	SP#45 - 2'	G				*					*		10-23		✓

Relinquished By:	Date: 10-25-19 Time: 11:15	Received By: Tamara Oldaker	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address:
Relinquished By:	Date: Time:	Received By:	REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 4.9 Corrected Temp. °C 4.4	Sample Condition Cool: Yes / No Intact: Yes / No	CHECKED BY: (Initials) TO.
Turnaround Time: Standard ☑ Rush ☐	Thermometer ID #97 Correction Factor +0.4 °C	Bacteria (only) Sample Condition Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No	Observed Temp. °C Corrected Temp. °C

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Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

March 24, 2020

ConocoPhillips - Tetra Tech

Sample Delivery Group:	L1199114
Samples Received:	03/13/2020
Project Number:	212C-MD-02119
Description:	COP MCA 2-C Header Release
Site:	LEA COUNTY, NEW MEXICO
Report To:	Christian Llull
	901 West Wall
	Suite 100
	Midland, TX 79701

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

AH-4E (0-1') L1199114-01 Solid

Collected by: Adrian | Collected date/time: 03/03/20 11:00 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445642	1	03/19/20 01:41	03/19/20 01:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444779	1	03/18/20 02:57	03/18/20 20:10	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 00:27	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 00:32	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/18/20 21:53	FM	Mt. Juliet, TN

AH-4E (3-4') L1199114-02 Solid

Collected by: Adrian | Collected date/time: 03/03/20 11:10 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445642	1	03/19/20 01:41	03/19/20 01:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444779	1	03/18/20 02:57	03/18/20 20:20	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445448	1	03/16/20 08:41	03/17/20 13:18	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 00:52	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/18/20 22:05	FM	Mt. Juliet, TN

AH-4W (0-1') L1199114-03 Solid

Collected by: Adrian | Collected date/time: 03/03/20 11:20 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445642	1	03/19/20 01:41	03/19/20 01:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444779	1	03/18/20 02:57	03/18/20 20:29	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 01:09	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 01:12	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/18/20 21:40	FM	Mt. Juliet, TN

AH-4W (3-4') L1199114-04 Solid

Collected by: Adrian | Collected date/time: 03/03/20 11:30 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445642	1	03/19/20 01:41	03/19/20 01:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444779	1	03/18/20 02:57	03/18/20 20:39	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445448	1	03/16/20 08:41	03/17/20 13:39	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 01:32	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/17/20 22:04	KME	Mt. Juliet, TN

T-5 (1-2') L1199114-05 Solid

Collected by: Adrian | Collected date/time: 03/05/20 11:50 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445642	1	03/19/20 01:41	03/19/20 01:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444779	1	03/18/20 02:57	03/18/20 20:48	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 01:50	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 01:52	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/17/20 21:00	KME	Mt. Juliet, TN

T-5 (3-4') L1199114-06 Solid

Collected by: Adrian | Collected date/time: 03/05/20 12:00 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445642	1	03/19/20 01:41	03/19/20 01:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 10:55	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 02:10	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1.04	03/16/20 08:41	03/17/20 02:13	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/17/20 21:13	KME	Mt. Juliet, TN

T-5 (5-6') L1199114-07 Solid

Collected by: Adrian | Collected date/time: 03/05/20 12:10 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445642	1	03/19/20 01:41	03/19/20 01:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	5	03/18/20 08:48	03/18/20 11:14	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445448	1	03/16/20 08:41	03/17/20 13:59	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 02:33	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/17/20 20:35	KME	Mt. Juliet, TN

T-5 (7-8') L1199114-08 Solid

Collected by: Adrian | Collected date/time: 03/05/20 12:20 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445642	1	03/19/20 01:41	03/19/20 01:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 11:23	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 02:52	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 02:53	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/17/20 20:48	KME	Mt. Juliet, TN

AH-5S (0-1') L1199114-09 Solid

Collected by: Adrian | Collected date/time: 03/05/20 13:00 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445643	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 11:33	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 03:12	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 03:13	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	20	03/17/20 16:06	03/17/20 23:32	KME	Mt. Juliet, TN

AH-5S (3-4') L1199114-10 Solid

Collected by: Adrian | Collected date/time: 03/05/20 13:10 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445643	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 11:42	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445448	1	03/16/20 08:41	03/17/20 14:20	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 03:34	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	20	03/17/20 16:06	03/17/20 23:57	KME	Mt. Juliet, TN

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

AH-5E (0-1') L1199114-11 Solid

Collected by: Adrian | Collected date/time: 03/05/20 11:00 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445643	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 11:52	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 03:53	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 03:54	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/18/20 22:18	FM	Mt. Juliet, TN

AH-5E (3-4') L1199114-12 Solid

Collected by: Adrian | Collected date/time: 03/05/20 11:10 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445643	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 12:01	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445448	1	03/16/20 08:41	03/17/20 14:41	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 04:14	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/18/20 19:46	FM	Mt. Juliet, TN

AH-5W (0-1') L1199114-13 Solid

Collected by: Adrian | Collected date/time: 03/05/20 11:20 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445643	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 12:49	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 04:34	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 04:35	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/18/20 19:59	FM	Mt. Juliet, TN

AH-5W (3-4) L1199114-14 Solid

Collected by: Adrian | Collected date/time: 03/05/20 11:30 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445643	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 12:58	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 04:55	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 04:55	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/17/20 21:26	KME	Mt. Juliet, TN

T-6 (1-2') L1199114-15 Solid

Collected by: Adrian | Collected date/time: 03/05/20 11:50 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445643	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	5	03/18/20 08:48	03/18/20 13:08	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 05:15	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 05:15	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	20	03/17/20 16:06	03/18/20 00:15	KME	Mt. Juliet, TN

T-6 (9-10') L1199114-16 Solid

Collected by: Adrian | Collected date/time: 03/05/20 12:20 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445643	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 13:17	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445448	1	03/16/20 08:41	03/17/20 15:01	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 05:35	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/17/20 21:38	KME	Mt. Juliet, TN

AH-6E (0-1') L1199114-17 Solid

Collected by: Adrian | Collected date/time: 03/05/20 13:00 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445643	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 13:27	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 07:01	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 05:56	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/19/20 23:30	KME	Mt. Juliet, TN

AH-6E (3-4') L1199114-18 Solid

Collected by: Adrian | Collected date/time: 03/05/20 13:10 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445643	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 13:36	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 07:22	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 06:16	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/19/20 21:32	KME	Mt. Juliet, TN

AH-6W (0-1') L1199114-19 Solid

Collected by: Adrian | Collected date/time: 03/05/20 11:00 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445647	1	03/19/20 01:21	03/19/20 01:27	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 13:46	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 07:42	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 06:36	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/19/20 21:45	KME	Mt. Juliet, TN

AH-6W (3-4') L1199114-20 Solid

Collected by: Adrian | Collected date/time: 03/05/20 11:10 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445647	1	03/19/20 01:21	03/19/20 01:27	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 13:55	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 08:03	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 06:56	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/19/20 21:57	KME	Mt. Juliet, TN

AH-7W (0-1') L1199114-21 Solid

Collected by: Adrian | Collected date/time: 03/05/20 11:20 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445647	1	03/19/20 01:21	03/19/20 01:27	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 14:24	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 01:23	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 15:22	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/20/20 07:45	KME	Mt. Juliet, TN

AH-7W (3-4') L1199114-22 Solid

Collected by: Adrian | Collected date/time: 03/05/20 11:30 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445647	1	03/19/20 01:21	03/19/20 01:27	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	5	03/18/20 08:48	03/18/20 14:34	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 01:44	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 15:41	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/19/20 23:56	KME	Mt. Juliet, TN

T-7 (1-2') L1199114-23 Solid

Collected by: Adrian | Collected date/time: 03/05/20 11:50 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445647	1	03/19/20 01:21	03/19/20 01:27	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	5	03/18/20 08:48	03/18/20 14:43	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 02:04	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 16:00	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/19/20 22:40	KME	Mt. Juliet, TN

T-7 (17.5') L1199114-24 Solid

Collected by: Adrian | Collected date/time: 03/05/20 13:00 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445647	1	03/19/20 01:21	03/19/20 01:27	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 14:53	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 02:25	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 16:19	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/20/20 07:19	KME	Mt. Juliet, TN

AH-7E (0-1') L1199114-25 Solid

Collected by: Adrian | Collected date/time: 03/05/20 13:10 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445647	1	03/19/20 01:21	03/19/20 01:27	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 15:02	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445660	1	03/16/20 08:59	03/17/20 18:13	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 16:38	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/20/20 00:59	KME	Mt. Juliet, TN

AH-7E (3-4') L1199114-26 Solid

Collected by: Adrian | Collected date/time: 03/06/20 11:00 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445647	1	03/19/20 01:21	03/19/20 01:27	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	10	03/17/20 22:10	03/18/20 00:06	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 06:54	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 16:57	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/20/20 00:08	KME	Mt. Juliet, TN

AH-8N (0-1') L1199114-27 Solid

Collected by: Adrian | Collected date/time: 03/06/20 11:20 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445647	1	03/19/20 01:21	03/19/20 01:27	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	1	03/17/20 22:10	03/18/20 00:15	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 07:14	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 17:16	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/19/20 23:05	KME	Mt. Juliet, TN

AH-8N (3-4') L1199114-28 Solid

Collected by: Adrian | Collected date/time: 03/06/20 11:30 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445648	1	03/19/20 00:56	03/19/20 01:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	5	03/17/20 22:10	03/18/20 00:24	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 07:35	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 17:35	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/20/20 07:32	KME	Mt. Juliet, TN

T-8 (1-2') L1199114-29 Solid

Collected by: Adrian | Collected date/time: 03/06/20 11:50 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445648	1	03/19/20 00:56	03/19/20 01:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	5	03/17/20 22:10	03/18/20 00:34	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445660	1	03/16/20 08:59	03/17/20 18:34	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 17:54	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	20	03/19/20 06:41	03/20/20 02:28	KME	Mt. Juliet, TN

T-8 (3-4') L1199114-30 Solid

Collected by: Adrian | Collected date/time: 03/06/20 12:00 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445648	1	03/19/20 00:56	03/19/20 01:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	5	03/17/20 22:10	03/18/20 00:53	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 08:16	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 18:13	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	20	03/20/20 15:35	03/21/20 04:09	JDG	Mt. Juliet, TN

T-8 (7-8') L1199114-31 Solid

Collected by: Adrian | Collected date/time: 03/06/20 12:10 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445648	1	03/19/20 00:56	03/19/20 01:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	5	03/17/20 22:10	03/18/20 01:02	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445660	1	03/16/20 08:59	03/17/20 18:54	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 18:32	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 13:28	JDG	Mt. Juliet, TN

T-8 (9-10') L1199114-32 Solid

Collected by: Adrian | Collected date/time: 03/06/20 12:20 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445648	1	03/19/20 00:56	03/19/20 01:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	5	03/17/20 22:10	03/18/20 01:12	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 08:57	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 18:51	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 02:54	JDG	Mt. Juliet, TN

AH-8E (0-1') L1199114-33 Solid

Collected by: Adrian | Collected date/time: 03/06/20 13:00 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445648	1	03/19/20 00:56	03/19/20 01:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	1	03/17/20 22:10	03/18/20 01:40	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 09:17	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 19:10	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 03:07	JDG	Mt. Juliet, TN

AH-8E (3-4') L1199114-34 Solid

Collected by: Adrian | Collected date/time: 03/06/20 13:10 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445648	1	03/19/20 00:56	03/19/20 01:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	1	03/17/20 22:10	03/18/20 02:09	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 09:38	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 08:59	03/18/20 08:16	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 02:41	JDG	Mt. Juliet, TN

AH-8W (0-1') L1199114-35 Solid

Collected by: Adrian | Collected date/time: 03/06/20 11:00 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445648	1	03/19/20 00:56	03/19/20 01:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	1	03/17/20 22:10	03/18/20 02:18	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 09:58	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 08:59	03/18/20 08:37	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	20	03/20/20 15:35	03/21/20 03:57	JDG	Mt. Juliet, TN

AH-8W (3-4') L1199114-36 Solid

Collected by: Adrian | Collected date/time: 03/06/20 11:10 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445648	1	03/19/20 00:56	03/19/20 01:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	1	03/17/20 22:10	03/18/20 02:28	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 10:18	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 08:59	03/18/20 08:58	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 13:02	JDG	Mt. Juliet, TN

AH-9E (0-1) L1199114-37 Solid

Collected by: Adrian | Collected date/time: 03/06/20 11:20 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445648	1	03/19/20 00:56	03/19/20 01:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	1	03/17/20 22:10	03/18/20 02:37	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 10:39	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 08:59	03/18/20 09:18	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 00:48	JDG	Mt. Juliet, TN

AH-9E (3-4') L1199114-38 Solid

Collected by: Adrian | Collected date/time: 03/06/20 11:30 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	1	03/17/20 22:10	03/18/20 02:47	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 10:59	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 08:59	03/18/20 09:39	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 13:15	JDG	Mt. Juliet, TN

T-9 (1-2') L1199114-39 Solid

Collected by: Adrian | Collected date/time: 03/06/20 11:50 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	20	03/17/20 22:10	03/18/20 02:57	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445660	1	03/16/20 08:59	03/17/20 19:15	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 08:59	03/18/20 10:00	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	20	03/20/20 15:35	03/21/20 03:32	JDG	Mt. Juliet, TN

T-9 (3-4') L1199114-40 Solid

Collected by: Adrian | Collected date/time: 03/06/20 12:00 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	20	03/17/20 22:10	03/18/20 03:06	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445660	1	03/16/20 08:59	03/17/20 19:35	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 08:59	03/18/20 10:21	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	10	03/20/20 15:35	03/21/20 03:44	JDG	Mt. Juliet, TN

T-9 (7-8') L1199114-41 Solid

Collected by: Adrian | Collected date/time: 03/06/20 12:10 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	20	03/17/20 22:10	03/18/20 03:35	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1447538	1	03/16/20 09:14	03/20/20 16:07	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 10:41	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 01:00	JDG	Mt. Juliet, TN

T-9 (9-10') L1199114-42 Solid

Collected by: Adrian | Collected date/time: 03/06/20 12:20 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	20	03/17/20 22:10	03/18/20 03:44	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445128	1	03/16/20 09:14	03/17/20 07:31	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 11:02	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 01:13	JDG	Mt. Juliet, TN

AH-9W (0-1') L1199114-43 Solid

Collected by: Adrian | Collected date/time: 03/06/20 13:00 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	1	03/17/20 22:10	03/18/20 03:54	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445128	1	03/16/20 09:14	03/17/20 07:53	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 11:23	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	50	03/20/20 15:35	03/21/20 03:19	JDG	Mt. Juliet, TN

AH-9W (3-4') L1199114-44 Solid

Collected by: Adrian | Collected date/time: 03/06/20 13:10 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	1	03/17/20 22:10	03/18/20 04:03	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445128	1	03/16/20 09:14	03/17/20 08:25	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 11:43	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 01:26	JDG	Mt. Juliet, TN

AH-10E (0-1') L1199114-45 Solid

Collected by: Adrian | Collected date/time: 03/09/20 11:00 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	1	03/17/20 20:08	03/18/20 00:58	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445128	1	03/16/20 09:14	03/17/20 09:13	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 12:04	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 01:38	JDG	Mt. Juliet, TN

AH-10E (3-4') L1199114-46 Solid

Collected by: Adrian | Collected date/time: 03/09/20 11:10 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	1	03/17/20 20:08	03/18/20 01:51	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445128	1	03/16/20 09:14	03/17/20 09:57	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 12:24	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 02:29	JDG	Mt. Juliet, TN

AH-10W (0-1') L1199114-47 Solid

Collected by: Adrian | Collected date/time: 03/09/20 11:20 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	1	03/17/20 20:08	03/18/20 02:09	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445128	1	03/16/20 09:14	03/17/20 10:20	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 12:45	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 01:51	JDG	Mt. Juliet, TN

AH-10W (3-4') L1199114-48 Solid

Collected by: Adrian | Collected date/time: 03/09/20 11:30 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	1	03/17/20 20:08	03/18/20 02:27	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445128	1	03/16/20 09:14	03/17/20 10:42	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 13:06	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 02:03	JDG	Mt. Juliet, TN

T-10 (1-2') L1199114-49 Solid

Collected by: Adrian | Collected date/time: 03/09/20 11:50 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	5	03/17/20 20:08	03/18/20 02:45	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445128	1	03/16/20 09:14	03/17/20 11:03	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 13:26	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 02:16	JDG	Mt. Juliet, TN

T-10 (14-15') L1199114-50 Solid

Collected by: Adrian | Collected date/time: 03/09/20 12:20 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	1	03/17/20 20:08	03/18/20 03:03	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445199	1	03/16/20 09:14	03/17/20 11:14	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 13:47	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447038	1	03/19/20 16:24	03/20/20 00:31	KME	Mt. Juliet, TN

T-9 (16'-17') L1199114-51 Solid

Collected by: Adrian | Collected date/time: 03/09/20 13:00 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	10	03/17/20 20:08	03/18/20 03:57	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445199	1	03/16/20 09:14	03/17/20 11:38	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 14:07	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447038	1	03/19/20 16:24	03/20/20 00:45	KME	Mt. Juliet, TN

AH-11W (0-1') L1199114-52 Solid

Collected by: Adrian | Collected date/time: 03/10/20 10:50 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	10	03/17/20 20:08	03/18/20 04:15	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445199	1	03/16/20 09:14	03/17/20 12:14	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 14:28	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447038	1	03/19/20 16:24	03/20/20 10:45	FM	Mt. Juliet, TN

AH-11W (3-4') L1199114-53 Solid

Collected by: Adrian | Collected date/time: 03/10/20 11:00 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	1	03/17/20 20:08	03/18/20 04:32	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1446150	1	03/16/20 09:14	03/18/20 17:19	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 14:48	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447038	1	03/19/20 16:24	03/20/20 10:59	FM	Mt. Juliet, TN

AH-11E (0-1') L1199114-54 Solid

Collected by: Adrian | Collected date/time: 03/10/20 11:10 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	1	03/17/20 20:08	03/18/20 05:26	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445199	1	03/16/20 09:14	03/17/20 13:02	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445419	1	03/16/20 09:14	03/17/20 17:30	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447038	1	03/19/20 16:24	03/20/20 10:32	FM	Mt. Juliet, TN

AH-11E (3-4') L1199114-55 Solid

Collected by: Adrian | Collected date/time: 03/10/20 11:20 | Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	1	03/17/20 20:08	03/18/20 05:44	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445199	1	03/16/20 09:14	03/17/20 13:26	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445419	1	03/16/20 09:14	03/17/20 17:49	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447038	1	03/19/20 16:24	03/20/20 10:18	FM	Mt. Juliet, TN

T-11 (1-2') L1199114-56 Solid

Collected by: Adrian
Collected date/time: 03/10/20 11:30
Received date/time: 03/13/20 08:00

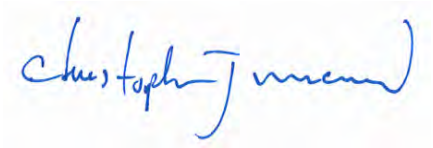
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	5	03/17/20 20:08	03/18/20 06:02	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445199	1	03/16/20 09:14	03/17/20 13:50	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445419	1	03/16/20 09:14	03/17/20 18:08	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447038	1	03/19/20 16:24	03/20/20 00:58	KME	Mt. Juliet, TN

T-11 (14-15') L1199114-57 Solid

Collected by: Adrian
Collected date/time: 03/10/20 12:10
Received date/time: 03/13/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	1	03/17/20 20:08	03/18/20 06:20	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445128	1	03/16/20 09:14	03/17/20 09:35	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445419	1	03/16/20 09:14	03/17/20 18:27	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447038	1	03/19/20 16:24	03/20/20 09:52	FM	Mt. Juliet, TN

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



Chris McCord
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.9		1	03/19/2020 01:48	WG1445642

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	2.79	B J	0.829	10.4	1	03/18/2020 20:10	WG1444779

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0568	B J	0.0226	0.104	1	03/17/2020 00:27	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	*93.3*			*77.0-120*		*03/17/2020 00:27*	WG1445119

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000417	0.00104	1	03/17/2020 00:32	WG1445122
Toluene	U		0.00130	0.00521	1	03/17/2020 00:32	WG1445122
Ethylbenzene	U		0.000553	0.00261	1	03/17/2020 00:32	WG1445122
Total Xylenes	U		0.00498	0.00678	1	03/17/2020 00:32	WG1445122
(S) Toluene-d8	*98.4*			*75.0-131*		*03/17/2020 00:32*	WG1445122
(S) 4-Bromofluorobenzene	*109*			*67.0-138*		*03/17/2020 00:32*	WG1445122
(S) 1,2-Dichloroethane-d4	*132*	J1		*70.0-130*		*03/17/2020 00:32*	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	7.86		1.68	4.17	1	03/18/2020 21:53	WG1445151
C28-C40 Oil Range	29.7		0.286	4.17	1	03/18/2020 21:53	WG1445151
(S) o-Terphenyl	*66.7*			*18.0-148*		*03/18/2020 21:53*	WG1445151

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.1		1	03/19/2020 01:48	WG1445642

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	106		0.836	10.5	1	03/18/2020 20:20	WG1444779

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0258	J	0.0228	0.105	1	03/17/2020 13:18	WG1445448
(S) a,a,a-Trifluorotoluene(FID)	*94.6*			*77.0-120*		*03/17/2020 13:18*	WG1445448

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000421	0.00105	1	03/17/2020 00:52	WG1445122
Toluene	U		0.00131	0.00526	1	03/17/2020 00:52	WG1445122
Ethylbenzene	U		0.000557	0.00263	1	03/17/2020 00:52	WG1445122
Total Xylenes	U		0.00503	0.00683	1	03/17/2020 00:52	WG1445122
(S) Toluene-d8	*101*			*75.0-131*		*03/17/2020 00:52*	WG1445122
(S) 4-Bromofluorobenzene	*117*			*67.0-138*		*03/17/2020 00:52*	WG1445122
(S) 1,2-Dichloroethane-d4	*122*			*70.0-130*		*03/17/2020 00:52*	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	8.59		1.69	4.21	1	03/18/2020 22:05	WG1445151
C28-C40 Oil Range	30.2		0.288	4.21	1	03/18/2020 22:05	WG1445151
(S) o-Terphenyl	*75.5*			*18.0-148*		*03/18/2020 22:05*	WG1445151

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.0		1	03/19/2020 01:48	WG1445642

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	2.64	B J	0.828	10.4	1	03/18/2020 20:29	WG1444779

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0422	B J	0.0226	0.104	1	03/17/2020 01:09	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	*95.2*			*77.0-120*		*03/17/2020 01:09*	WG1445119

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000417	0.00104	1	03/17/2020 01:12	WG1445122
Toluene	U		0.00130	0.00521	1	03/17/2020 01:12	WG1445122
Ethylbenzene	U		0.000552	0.00260	1	03/17/2020 01:12	WG1445122
Total Xylenes	U		0.00498	0.00677	1	03/17/2020 01:12	WG1445122
(S) Toluene-d8	*99.6*			*75.0-131*		*03/17/2020 01:12*	WG1445122
(S) 4-Bromofluorobenzene	*115*			*67.0-138*		*03/17/2020 01:12*	WG1445122
(S) 1,2-Dichloroethane-d4	*119*			*70.0-130*		*03/17/2020 01:12*	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	7.90		1.68	4.17	1	03/18/2020 21:40	WG1445151
C28-C40 Oil Range	28.0		0.285	4.17	1	03/18/2020 21:40	WG1445151
(S) o-Terphenyl	*69.6*			*18.0-148*		*03/18/2020 21:40*	WG1445151

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.3		1	03/19/2020 01:48	WG1445642

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	285		0.843	10.6	1	03/18/2020 20:39	WG1444779

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0230	0.106	1	03/17/2020 13:39	WG1445448
(S) a,a,a-Trifluorotoluene(FID)	*94.5*			*77.0-120*		*03/17/2020 13:39*	WG1445448

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000424	0.00106	1	03/17/2020 01:32	WG1445122
Toluene	U		0.00133	0.00530	1	03/17/2020 01:32	WG1445122
Ethylbenzene	U		0.000562	0.00265	1	03/17/2020 01:32	WG1445122
Total Xylenes	U		0.00507	0.00689	1	03/17/2020 01:32	WG1445122
(S) Toluene-d8	*101*			*75.0-131*		*03/17/2020 01:32*	WG1445122
(S) 4-Bromofluorobenzene	*112*			*67.0-138*		*03/17/2020 01:32*	WG1445122
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*03/17/2020 01:32*	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.16	J	1.71	4.24	1	03/17/2020 22:04	WG1445151
C28-C40 Oil Range	7.64		0.291	4.24	1	03/17/2020 22:04	WG1445151
(S) o-Terphenyl	*59.0*			*18.0-148*		*03/17/2020 22:04*	WG1445151

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.1		1	03/19/2020 01:48	WG1445642

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	38.0		0.836	10.5	1	03/18/2020 20:48	WG1444779

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0350	B J	0.0228	0.105	1	03/17/2020 01:50	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	*94.8*			*77.0-120*		*03/17/2020 01:50*	WG1445119

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000421	0.00105	1	03/17/2020 01:52	WG1445122
Toluene	U		0.00131	0.00526	1	03/17/2020 01:52	WG1445122
Ethylbenzene	U		0.000557	0.00263	1	03/17/2020 01:52	WG1445122
Total Xylenes	U		0.00503	0.00684	1	03/17/2020 01:52	WG1445122
(S) Toluene-d8	*102*			*75.0-131*		*03/17/2020 01:52*	WG1445122
(S) 4-Bromofluorobenzene	*109*			*67.0-138*		*03/17/2020 01:52*	WG1445122
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*03/17/2020 01:52*	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.69	4.21	1	03/17/2020 21:00	WG1445151
C28-C40 Oil Range	4.04	J	0.288	4.21	1	03/17/2020 21:00	WG1445151
(S) o-Terphenyl	*64.4*			*18.0-148*		*03/17/2020 21:00*	WG1445151

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.1		1	03/19/2020 01:48	WG1445642

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	628		0.873	11.0	1	03/18/2020 10:55	WG1444780

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0649	B J	0.0238	0.110	1	03/17/2020 02:10	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	*93.5*			*77.0-120*		*03/17/2020 02:10*	WG1445119

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000457	0.00114	1.04	03/17/2020 02:13	WG1445122
Toluene	U		0.00143	0.00571	1.04	03/17/2020 02:13	WG1445122
Ethylbenzene	U		0.000605	0.00285	1.04	03/17/2020 02:13	WG1445122
Total Xylenes	U		0.00546	0.00742	1.04	03/17/2020 02:13	WG1445122
(S) Toluene-d8	*99.4*			*75.0-131*		*03/17/2020 02:13*	WG1445122
(S) 4-Bromofluorobenzene	*113*			*67.0-138*		*03/17/2020 02:13*	WG1445122
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*03/17/2020 02:13*	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.77	4.39	1	03/17/2020 21:13	WG1445151
C28-C40 Oil Range	3.13	J	0.301	4.39	1	03/17/2020 21:13	WG1445151
(S) o-Terphenyl	*70.9*			*18.0-148*		*03/17/2020 21:13*	WG1445151

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.7		1	03/19/2020 01:48	WG1445642

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	2630		4.39	55.1	5	03/18/2020 11:14	WG1444780

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0670	J	0.0239	0.110	1	03/17/2020 13:59	WG1445448
(S) a,a,a-Trifluorotoluene(FID)	*92.1*			*77.0-120*		*03/17/2020 13:59*	WG1445448

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000441	0.00110	1	03/17/2020 02:33	WG1445122
Toluene	U		0.00138	0.00551	1	03/17/2020 02:33	WG1445122
Ethylbenzene	U		0.000584	0.00276	1	03/17/2020 02:33	WG1445122
Total Xylenes	U		0.00527	0.00717	1	03/17/2020 02:33	WG1445122
(S) Toluene-d8	*102*			*75.0-131*		*03/17/2020 02:33*	WG1445122
(S) 4-Bromofluorobenzene	*112*			*67.0-138*		*03/17/2020 02:33*	WG1445122
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*		*03/17/2020 02:33*	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.78	4.41	1	03/17/2020 20:35	WG1445151
C28-C40 Oil Range	7.83		0.302	4.41	1	03/17/2020 20:35	WG1445151
(S) o-Terphenyl	*68.8*			*18.0-148*		*03/17/2020 20:35*	WG1445151

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.6		1	03/19/2020 01:48	WG1445642

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	233		0.877	11.0	1	03/18/2020 11:23	WG1444780

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0347	B J	0.0240	0.110	1	03/17/2020 02:52	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	*93.8*			*77.0-120*		*03/17/2020 02:52*	WG1445119

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000442	0.00110	1	03/17/2020 02:53	WG1445122
Toluene	U		0.00138	0.00552	1	03/17/2020 02:53	WG1445122
Ethylbenzene	U		0.000585	0.00276	1	03/17/2020 02:53	WG1445122
Total Xylenes	U		0.00528	0.00717	1	03/17/2020 02:53	WG1445122
(S) Toluene-d8	*102*			*75.0-131*		*03/17/2020 02:53*	WG1445122
(S) 4-Bromofluorobenzene	*113*			*67.0-138*		*03/17/2020 02:53*	WG1445122
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*03/17/2020 02:53*	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.78	4.42	1	03/17/2020 20:48	WG1445151
C28-C40 Oil Range	1.56	J	0.302	4.42	1	03/17/2020 20:48	WG1445151
(S) o-Terphenyl	*65.5*			*18.0-148*		*03/17/2020 20:48*	WG1445151

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.0		1	03/19/2020 01:36	WG1445643

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	38.2		0.820	10.3	1	03/18/2020 11:33	WG1444780

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0321	B J	0.0224	0.103	1	03/17/2020 03:12	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	*94.5*			*77.0-120*		*03/17/2020 03:12*	WG1445119

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000412	0.00103	1	03/17/2020 03:13	WG1445122
Toluene	U		0.00129	0.00515	1	03/17/2020 03:13	WG1445122
Ethylbenzene	U		0.000546	0.00258	1	03/17/2020 03:13	WG1445122
Total Xylenes	U		0.00493	0.00670	1	03/17/2020 03:13	WG1445122
(S) Toluene-d8	*104*			*75.0-131*		*03/17/2020 03:13*	WG1445122
(S) 4-Bromofluorobenzene	*120*			*67.0-138*		*03/17/2020 03:13*	WG1445122
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*03/17/2020 03:13*	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	133		33.2	82.5	20	03/17/2020 23:32	WG1445151
C28-C40 Oil Range	391		5.65	82.5	20	03/17/2020 23:32	WG1445151
(S) o-Terphenyl	*0.000*	J7		*18.0-148*		*03/17/2020 23:32*	WG1445151

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.6		1	03/19/2020 01:36	WG1445643

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	84.6		0.878	11.0	1	03/18/2020 11:42	WG1444780

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0240	0.110	1	03/17/2020 14:20	WG1445448
(S) a,a,a-Trifluorotoluene(FID)	*94.0*			*77.0-120*		*03/17/2020 14:20*	WG1445448

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000442	0.00110	1	03/17/2020 03:34	WG1445122
Toluene	U		0.00138	0.00552	1	03/17/2020 03:34	WG1445122
Ethylbenzene	U		0.000585	0.00276	1	03/17/2020 03:34	WG1445122
Total Xylenes	U		0.00528	0.00717	1	03/17/2020 03:34	WG1445122
(S) Toluene-d8	*103*			*75.0-131*		*03/17/2020 03:34*	WG1445122
(S) 4-Bromofluorobenzene	*113*			*67.0-138*		*03/17/2020 03:34*	WG1445122
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*03/17/2020 03:34*	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	309		35.5	88.3	20	03/17/2020 23:57	WG1445151
C28-C40 Oil Range	793		6.05	88.3	20	03/17/2020 23:57	WG1445151
(S) o-Terphenyl	*0.000*	J7		*18.0-148*		*03/17/2020 23:57*	WG1445151

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.9		1	03/19/2020 01:36	WG1445643

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	2.50	J	0.829	10.4	1	03/18/2020 11:52	WG1444780

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0312	B J	0.0226	0.104	1	03/17/2020 03:53	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	*95.4*			*77.0-120*		*03/17/2020 03:53*	WG1445119

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000417	0.00104	1	03/17/2020 03:54	WG1445122
Toluene	U		0.00130	0.00521	1	03/17/2020 03:54	WG1445122
Ethylbenzene	U		0.000553	0.00261	1	03/17/2020 03:54	WG1445122
Total Xylenes	U		0.00498	0.00678	1	03/17/2020 03:54	WG1445122
(S) Toluene-d8	*104*			*75.0-131*		*03/17/2020 03:54*	WG1445122
(S) 4-Bromofluorobenzene	*117*			*67.0-138*		*03/17/2020 03:54*	WG1445122
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*03/17/2020 03:54*	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	9.00		1.68	4.17	1	03/18/2020 22:18	WG1445151
C28-C40 Oil Range	33.3		0.286	4.17	1	03/18/2020 22:18	WG1445151
(S) o-Terphenyl	*73.7*			*18.0-148*		*03/18/2020 22:18*	WG1445151

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.6		1	03/19/2020 01:36	WG1445643

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	209		0.841	10.6	1	03/18/2020 12:01	WG1444780

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0230	0.106	1	03/17/2020 14:41	WG1445448
(S) a,a,a-Trifluorotoluene(FID)	*94.3*			*77.0-120*		*03/17/2020 14:41*	WG1445448

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000423	0.00106	1	03/17/2020 04:14	WG1445122
Toluene	U		0.00132	0.00529	1	03/17/2020 04:14	WG1445122
Ethylbenzene	U		0.000561	0.00264	1	03/17/2020 04:14	WG1445122
Total Xylenes	U		0.00506	0.00687	1	03/17/2020 04:14	WG1445122
(S) Toluene-d8	*102*			*75.0-131*		*03/17/2020 04:14*	WG1445122
(S) 4-Bromofluorobenzene	*115*			*67.0-138*		*03/17/2020 04:14*	WG1445122
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*03/17/2020 04:14*	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.18	J	1.70	4.23	1	03/18/2020 19:46	WG1445151
C28-C40 Oil Range	8.05		0.290	4.23	1	03/18/2020 19:46	WG1445151
(S) o-Terphenyl	*69.3*			*18.0-148*		*03/18/2020 19:46*	WG1445151

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.8		1	03/19/2020 01:36	WG1445643

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	19.2		0.813	10.2	1	03/18/2020 12:49	WG1444780

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0273	B J	0.0222	0.102	1	03/17/2020 04:34	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	*95.4*			*77.0-120*		*03/17/2020 04:34*	WG1445119

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000409	0.00102	1	03/17/2020 04:35	WG1445122
Toluene	U		0.00128	0.00511	1	03/17/2020 04:35	WG1445122
Ethylbenzene	U		0.000542	0.00256	1	03/17/2020 04:35	WG1445122
Total Xylenes	U		0.00489	0.00665	1	03/17/2020 04:35	WG1445122
(S) Toluene-d8	*102*			*75.0-131*		*03/17/2020 04:35*	WG1445122
(S) 4-Bromofluorobenzene	*115*			*67.0-138*		*03/17/2020 04:35*	WG1445122
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*03/17/2020 04:35*	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	23.8		1.65	4.09	1	03/18/2020 19:59	WG1445151
C28-C40 Oil Range	63.4		0.280	4.09	1	03/18/2020 19:59	WG1445151
(S) o-Terphenyl	*61.3*			*18.0-148*		*03/18/2020 19:59*	WG1445151

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.1		1	03/19/2020 01:36	WG1445643

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	33.7		0.827	10.4	1	03/18/2020 12:58	WG1444780

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0362	B J	0.0226	0.104	1	03/17/2020 04:55	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	*95.9*			*77.0-120*		*03/17/2020 04:55*	WG1445119

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000416	0.00104	1	03/17/2020 04:55	WG1445122
Toluene	U		0.00130	0.00520	1	03/17/2020 04:55	WG1445122
Ethylbenzene	U		0.000551	0.00260	1	03/17/2020 04:55	WG1445122
Total Xylenes	U		0.00497	0.00676	1	03/17/2020 04:55	WG1445122
(S) Toluene-d8	*103*			*75.0-131*		*03/17/2020 04:55*	WG1445122
(S) 4-Bromofluorobenzene	*119*			*67.0-138*		*03/17/2020 04:55*	WG1445122
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*03/17/2020 04:55*	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	18.5		1.67	4.16	1	03/17/2020 21:26	WG1445151
C28-C40 Oil Range	6.18		0.285	4.16	1	03/17/2020 21:26	WG1445151
(S) o-Terphenyl	*40.4*			*18.0-148*		*03/17/2020 21:26*	WG1445151

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.4		1	03/19/2020 01:36	WG1445643

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	569		4.40	55.3	5	03/18/2020 13:08	WG1444780

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0265	B J	0.0240	0.111	1	03/17/2020 05:15	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	*95.0*			*77.0-120*		*03/17/2020 05:15*	WG1445119

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000442	0.00111	1	03/17/2020 05:15	WG1445122
Toluene	U		0.00138	0.00553	1	03/17/2020 05:15	WG1445122
Ethylbenzene	U		0.000586	0.00277	1	03/17/2020 05:15	WG1445122
Total Xylenes	U		0.00529	0.00719	1	03/17/2020 05:15	WG1445122
(S) Toluene-d8	*103*			*75.0-131*		*03/17/2020 05:15*	WG1445122
(S) 4-Bromofluorobenzene	*115*			*67.0-138*		*03/17/2020 05:15*	WG1445122
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*03/17/2020 05:15*	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1250		35.6	88.5	20	03/18/2020 00:15	WG1445151
C28-C40 Oil Range	969		6.06	88.5	20	03/18/2020 00:15	WG1445151
(S) o-Terphenyl	*0.000*	J7		*18.0-148*		*03/18/2020 00:15*	WG1445151

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.4		1	03/19/2020 01:36	WG1445643

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	722		0.851	10.7	1	03/18/2020 13:17	WG1444780

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0251	J	0.0232	0.107	1	03/17/2020 15:01	WG1445448
(S) a,a,a-Trifluorotoluene(FID)	*95.1*			*77.0-120*		*03/17/2020 15:01*	WG1445448

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000428	0.00107	1	03/17/2020 05:35	WG1445122
Toluene	U		0.00134	0.00535	1	03/17/2020 05:35	WG1445122
Ethylbenzene	U		0.000568	0.00268	1	03/17/2020 05:35	WG1445122
Total Xylenes	U		0.00512	0.00696	1	03/17/2020 05:35	WG1445122
(S) Toluene-d8	*103*			*75.0-131*		*03/17/2020 05:35*	WG1445122
(S) 4-Bromofluorobenzene	*114*			*67.0-138*		*03/17/2020 05:35*	WG1445122
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*03/17/2020 05:35*	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	215		1.72	4.28	1	03/17/2020 21:38	WG1445151
C28-C40 Oil Range	156		0.293	4.28	1	03/17/2020 21:38	WG1445151
(S) o-Terphenyl	*71.0*			*18.0-148*		*03/17/2020 21:38*	WG1445151

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.7		1	03/19/2020 01:36	WG1445643

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1.38	J	0.830	10.4	1	03/18/2020 13:27	WG1444780

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0323	B J	0.0227	0.104	1	03/17/2020 07:01	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	*96.4*			*77.0-120*		*03/17/2020 07:01*	WG1445119

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000418	0.00104	1	03/17/2020 05:56	WG1445122
Toluene	U		0.00131	0.00522	1	03/17/2020 05:56	WG1445122
Ethylbenzene	U		0.000554	0.00261	1	03/17/2020 05:56	WG1445122
Total Xylenes	U		0.00499	0.00679	1	03/17/2020 05:56	WG1445122
(S) Toluene-d8	*102*			*75.0-131*		*03/17/2020 05:56*	WG1445122
(S) 4-Bromofluorobenzene	*115*			*67.0-138*		*03/17/2020 05:56*	WG1445122
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*03/17/2020 05:56*	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.54	J	1.68	4.18	1	03/19/2020 23:30	WG1446556
C28-C40 Oil Range	9.51		0.286	4.18	1	03/19/2020 23:30	WG1446556
(S) o-Terphenyl	*66.8*			*18.0-148*		*03/19/2020 23:30*	WG1446556

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.6		1	03/19/2020 01:36	WG1445643

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	3.41	J	0.832	10.5	1	03/18/2020 13:36	WG1444780

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0247	B J	0.0227	0.105	1	03/17/2020 07:22	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	*95.3*			*77.0-120*		*03/17/2020 07:22*	WG1445119

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000419	0.00105	1	03/17/2020 06:16	WG1445122
Toluene	U		0.00131	0.00523	1	03/17/2020 06:16	WG1445122
Ethylbenzene	U		0.000555	0.00262	1	03/17/2020 06:16	WG1445122
Total Xylenes	U		0.00500	0.00680	1	03/17/2020 06:16	WG1445122
(S) Toluene-d8	*103*			*75.0-131*		*03/17/2020 06:16*	WG1445122
(S) 4-Bromofluorobenzene	*119*			*67.0-138*		*03/17/2020 06:16*	WG1445122
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*03/17/2020 06:16*	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.68	4.19	1	03/19/2020 21:32	WG1446556
C28-C40 Oil Range	3.52	J	0.287	4.19	1	03/19/2020 21:32	WG1446556
(S) o-Terphenyl	*66.5*			*18.0-148*		*03/19/2020 21:32*	WG1446556

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.4		1	03/19/2020 01:27	WG1445647

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1.27	J	0.851	10.7	1	03/18/2020 13:46	WG1444780

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0324	B J	0.0232	0.107	1	03/17/2020 07:42	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	*94.5*			*77.0-120*		*03/17/2020 07:42*	WG1445119

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000428	0.00107	1	03/17/2020 06:36	WG1445122
Toluene	U		0.00134	0.00535	1	03/17/2020 06:36	WG1445122
Ethylbenzene	U		0.000567	0.00268	1	03/17/2020 06:36	WG1445122
Total Xylenes	U		0.00512	0.00696	1	03/17/2020 06:36	WG1445122
(S) Toluene-d8	*101*			*75.0-131*		*03/17/2020 06:36*	WG1445122
(S) 4-Bromofluorobenzene	*115*			*67.0-138*		*03/17/2020 06:36*	WG1445122
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*03/17/2020 06:36*	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.72	4.28	1	03/19/2020 21:45	WG1446556
C28-C40 Oil Range	3.00	J	0.293	4.28	1	03/19/2020 21:45	WG1446556
(S) o-Terphenyl	*62.9*			*18.0-148*		*03/19/2020 21:45*	WG1446556

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.2		1	03/19/2020 01:27	WG1445647

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	24.0		0.862	10.8	1	03/18/2020 13:55	WG1444780

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0788	B J	0.0235	0.108	1	03/17/2020 08:03	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	*92.8*			*77.0-120*		*03/17/2020 08:03*	WG1445119

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000434	0.00108	1	03/17/2020 06:56	WG1445122
Toluene	U		0.00136	0.00542	1	03/17/2020 06:56	WG1445122
Ethylbenzene	U		0.000575	0.00271	1	03/17/2020 06:56	WG1445122
Total Xylenes	U		0.00518	0.00705	1	03/17/2020 06:56	WG1445122
(S) Toluene-d8	*103*			*75.0-131*		*03/17/2020 06:56*	WG1445122
(S) 4-Bromofluorobenzene	*114*			*67.0-138*		*03/17/2020 06:56*	WG1445122
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*03/17/2020 06:56*	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.75	4.34	1	03/19/2020 21:57	WG1446556
C28-C40 Oil Range	4.33	J	0.297	4.34	1	03/19/2020 21:57	WG1446556
(S) o-Terphenyl	*63.0*			*18.0-148*		*03/19/2020 21:57*	WG1446556

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.5		1	03/19/2020 01:27	WG1445647

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	3.62	J	0.841	10.6	1	03/18/2020 14:24	WG1444780

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0546	B J	0.0230	0.106	1	03/17/2020 01:23	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	*96.0*			*77.0-120*		*03/17/2020 01:23*	WG1445120

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000423	0.00106	1	03/17/2020 15:22	WG1445259
Toluene	U		0.00132	0.00529	1	03/17/2020 15:22	WG1445259
Ethylbenzene	U		0.000561	0.00264	1	03/17/2020 15:22	WG1445259
Total Xylenes	U		0.00506	0.00688	1	03/17/2020 15:22	WG1445259
(S) Toluene-d8	*105*			*75.0-131*		*03/17/2020 15:22*	WG1445259
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*03/17/2020 15:22*	WG1445259
(S) 1,2-Dichloroethane-d4	*99.2*			*70.0-130*		*03/17/2020 15:22*	WG1445259

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	16.4		1.70	4.23	1	03/20/2020 07:45	WG1446556
C28-C40 Oil Range	53.2		0.290	4.23	1	03/20/2020 07:45	WG1446556
(S) o-Terphenyl	*47.2*			*18.0-148*		*03/20/2020 07:45*	WG1446556

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.5		1	03/19/2020 01:27	WG1445647

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1950		4.55	57.1	5	03/18/2020 14:34	WG1444780

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0493	B J	0.0248	0.114	1	03/17/2020 01:44	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	*96.7*			*77.0-120*		*03/17/2020 01:44*	WG1445120

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000457	0.00114	1	03/17/2020 15:41	WG1445259
Toluene	U		0.00143	0.00571	1	03/17/2020 15:41	WG1445259
Ethylbenzene	U		0.000606	0.00286	1	03/17/2020 15:41	WG1445259
Total Xylenes	U		0.00546	0.00743	1	03/17/2020 15:41	WG1445259
(S) Toluene-d8	*105*			*75.0-131*		*03/17/2020 15:41*	WG1445259
(S) 4-Bromofluorobenzene	*99.6*			*67.0-138*		*03/17/2020 15:41*	WG1445259
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*03/17/2020 15:41*	WG1445259

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	8.71		1.84	4.57	1	03/19/2020 23:56	WG1446556
C28-C40 Oil Range	18.5		0.313	4.57	1	03/19/2020 23:56	WG1446556
(S) o-Terphenyl	*67.5*			*18.0-148*		*03/19/2020 23:56*	WG1446556

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.9		1	03/19/2020 01:27	WG1445647

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1100		4.38	55.0	5	03/18/2020 14:43	WG1444780

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0522	B J	0.0239	0.110	1	03/17/2020 02:04	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	*96.3*			*77.0-120*		*03/17/2020 02:04*	WG1445120

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000440	0.00110	1	03/17/2020 16:00	WG1445259
Toluene	U		0.00138	0.00550	1	03/17/2020 16:00	WG1445259
Ethylbenzene	U		0.000583	0.00275	1	03/17/2020 16:00	WG1445259
Total Xylenes	U		0.00526	0.00715	1	03/17/2020 16:00	WG1445259
(S) Toluene-d8	*105*			*75.0-131*		*03/17/2020 16:00*	WG1445259
(S) 4-Bromofluorobenzene	*98.8*			*67.0-138*		*03/17/2020 16:00*	WG1445259
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*03/17/2020 16:00*	WG1445259

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.45	J	1.77	4.40	1	03/19/2020 22:40	WG1446556
C28-C40 Oil Range	8.45		0.302	4.40	1	03/19/2020 22:40	WG1446556
(S) o-Terphenyl	*68.2*			*18.0-148*		*03/19/2020 22:40*	WG1446556

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.6		1	03/19/2020 01:27	WG1445647

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	446		0.832	10.5	1	03/18/2020 14:53	WG1444780

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0392	B J	0.0227	0.105	1	03/17/2020 02:25	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	*96.6*			*77.0-120*		*03/17/2020 02:25*	WG1445120

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000419	0.00105	1	03/17/2020 16:19	WG1445259
Toluene	U		0.00131	0.00523	1	03/17/2020 16:19	WG1445259
Ethylbenzene	U		0.000555	0.00262	1	03/17/2020 16:19	WG1445259
Total Xylenes	U		0.00500	0.00680	1	03/17/2020 16:19	WG1445259
(S) Toluene-d8	*107*			*75.0-131*		*03/17/2020 16:19*	WG1445259
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*03/17/2020 16:19*	WG1445259
(S) 1,2-Dichloroethane-d4	*98.8*			*70.0-130*		*03/17/2020 16:19*	WG1445259

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.76	J	1.68	4.19	1	03/20/2020 07:19	WG1446556
C28-C40 Oil Range	1.61	J	0.287	4.19	1	03/20/2020 07:19	WG1446556
(S) o-Terphenyl	*74.3*			*18.0-148*		*03/20/2020 07:19*	WG1446556

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.7		1	03/19/2020 01:27	WG1445647

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	3.69	J	0.839	10.6	1	03/18/2020 15:02	WG1444780

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0548	B J	0.0229	0.106	1	03/17/2020 18:13	WG1445660
(S) a,a,a-Trifluorotoluene(FID)	*96.5*			*77.0-120*		*03/17/2020 18:13*	WG1445660

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000422	0.00106	1	03/17/2020 16:38	WG1445259
Toluene	U		0.00132	0.00528	1	03/17/2020 16:38	WG1445259
Ethylbenzene	U		0.000560	0.00264	1	03/17/2020 16:38	WG1445259
Total Xylenes	U		0.00505	0.00686	1	03/17/2020 16:38	WG1445259
(S) Toluene-d8	*105*			*75.0-131*		*03/17/2020 16:38*	WG1445259
(S) 4-Bromofluorobenzene	*98.1*			*67.0-138*		*03/17/2020 16:38*	WG1445259
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*03/17/2020 16:38*	WG1445259

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	9.98		1.70	4.22	1	03/20/2020 00:59	WG1446556
C28-C40 Oil Range	28.0		0.289	4.22	1	03/20/2020 00:59	WG1446556
(S) o-Terphenyl	*62.5*			*18.0-148*		*03/20/2020 00:59*	WG1446556

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.1		1	03/19/2020 01:27	WG1445647

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1780		9.13	115	10	03/18/2020 00:06	WG1445291

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0422	B J	0.0249	0.115	1	03/17/2020 06:54	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	*96.9*			*77.0-120*		*03/17/2020 06:54*	WG1445120

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000459	0.00115	1	03/17/2020 16:57	WG1445259
Toluene	U		0.00144	0.00574	1	03/17/2020 16:57	WG1445259
Ethylbenzene	U		0.000608	0.00287	1	03/17/2020 16:57	WG1445259
Total Xylenes	U		0.00549	0.00746	1	03/17/2020 16:57	WG1445259
(S) Toluene-d8	*106*			*75.0-131*		*03/17/2020 16:57*	WG1445259
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*03/17/2020 16:57*	WG1445259
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*03/17/2020 16:57*	WG1445259

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	7.51		1.85	4.59	1	03/20/2020 00:08	WG1446556
C28-C40 Oil Range	16.9		0.315	4.59	1	03/20/2020 00:08	WG1446556
(S) o-Terphenyl	*66.7*			*18.0-148*		*03/20/2020 00:08*	WG1446556

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.4		1	03/19/2020 01:27	WG1445647

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	40.3		0.816	10.3	1	03/18/2020 00:15	WG1445291

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0408	B J	0.0223	0.103	1	03/17/2020 07:14	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	*96.9*			*77.0-120*		*03/17/2020 07:14*	WG1445120

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000411	0.00103	1	03/17/2020 17:16	WG1445259
Toluene	U		0.00128	0.00514	1	03/17/2020 17:16	WG1445259
Ethylbenzene	U		0.000544	0.00257	1	03/17/2020 17:16	WG1445259
Total Xylenes	U		0.00491	0.00668	1	03/17/2020 17:16	WG1445259
(S) Toluene-d8	*106*			*75.0-131*		*03/17/2020 17:16*	WG1445259
(S) 4-Bromofluorobenzene	*96.7*			*67.0-138*		*03/17/2020 17:16*	WG1445259
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*03/17/2020 17:16*	WG1445259

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.19	J	1.65	4.11	1	03/19/2020 23:05	WG1446556
C28-C40 Oil Range	7.68		0.281	4.11	1	03/19/2020 23:05	WG1446556
(S) o-Terphenyl	*66.0*			*18.0-148*		*03/19/2020 23:05*	WG1446556

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.2		1	03/19/2020 01:04	WG1445648

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	174		4.18	52.5	5	03/18/2020 00:24	WG1445291

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0377	B J	0.0228	0.105	1	03/17/2020 07:35	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	*96.9*			*77.0-120*		*03/17/2020 07:35*	WG1445120

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000420	0.00105	1	03/17/2020 17:35	WG1445259
Toluene	U		0.00131	0.00525	1	03/17/2020 17:35	WG1445259
Ethylbenzene	U		0.000556	0.00262	1	03/17/2020 17:35	WG1445259
Total Xylenes	U		0.00502	0.00682	1	03/17/2020 17:35	WG1445259
(S) Toluene-d8	*104*			*75.0-131*		*03/17/2020 17:35*	WG1445259
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*03/17/2020 17:35*	WG1445259
(S) 1,2-Dichloroethane-d4	*99.3*			*70.0-130*		*03/17/2020 17:35*	WG1445259

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.69	4.20	1	03/20/2020 07:32	WG1446556
C28-C40 Oil Range	3.30	J	0.288	4.20	1	03/20/2020 07:32	WG1446556
(S) o-Terphenyl	*60.6*			*18.0-148*		*03/20/2020 07:32*	WG1446556

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.1		1	03/19/2020 01:04	WG1445648

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1080		4.57	57.4	5	03/18/2020 00:34	WG1445291

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0556	B J	0.0249	0.115	1	03/17/2020 18:34	WG1445660
(S) a,a,a-Trifluorotoluene(FID)	*95.1*			*77.0-120*		*03/17/2020 18:34*	WG1445660

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000459	0.00115	1	03/17/2020 17:54	WG1445259
Toluene	U		0.00144	0.00574	1	03/17/2020 17:54	WG1445259
Ethylbenzene	U		0.000609	0.00287	1	03/17/2020 17:54	WG1445259
Total Xylenes	U		0.00549	0.00746	1	03/17/2020 17:54	WG1445259
(S) Toluene-d8	*104*			*75.0-131*		*03/17/2020 17:54*	WG1445259
(S) 4-Bromofluorobenzene	*96.8*			*67.0-138*		*03/17/2020 17:54*	WG1445259
(S) 1,2-Dichloroethane-d4	*98.9*			*70.0-130*		*03/17/2020 17:54*	WG1445259

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	324		37.0	91.9	20	03/20/2020 02:28	WG1446556
C28-C40 Oil Range	633		6.29	91.9	20	03/20/2020 02:28	WG1446556
(S) o-Terphenyl	*67.4*	J7		*18.0-148*		*03/20/2020 02:28*	WG1446556

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.8		1	03/19/2020 01:04	WG1445648

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1580		4.43	55.7	5	03/18/2020 00:53	WG1445291

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0442	B J	0.0242	0.111	1	03/17/2020 08:16	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	*93.0*			*77.0-120*		*03/17/2020 08:16*	WG1445120

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000445	0.00111	1	03/17/2020 18:13	WG1445259
Toluene	U		0.00139	0.00557	1	03/17/2020 18:13	WG1445259
Ethylbenzene	U		0.000590	0.00278	1	03/17/2020 18:13	WG1445259
Total Xylenes	U		0.00532	0.00724	1	03/17/2020 18:13	WG1445259
(S) Toluene-d8	*104*			*75.0-131*		*03/17/2020 18:13*	WG1445259
(S) 4-Bromofluorobenzene	*99.3*			*67.0-138*		*03/17/2020 18:13*	WG1445259
(S) 1,2-Dichloroethane-d4	*99.1*			*70.0-130*		*03/17/2020 18:13*	WG1445259

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	416		35.9	89.1	20	03/21/2020 04:09	WG1447675
C28-C40 Oil Range	725		6.10	89.1	20	03/21/2020 04:09	WG1447675
(S) o-Terphenyl	*60.3*	J7		*18.0-148*		*03/21/2020 04:09*	WG1447675

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.0		1	03/19/2020 01:04	WG1445648

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1360		4.28	53.8	5	03/18/2020 01:02	WG1445291

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0372	B J	0.0233	0.108	1	03/17/2020 18:54	WG1445660
(S) a,a,a-Trifluorotoluene(FID)	*97.3*			*77.0-120*		*03/17/2020 18:54*	WG1445660

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000430	0.00108	1	03/17/2020 18:32	WG1445259
Toluene	U		0.00134	0.00538	1	03/17/2020 18:32	WG1445259
Ethylbenzene	U		0.000570	0.00269	1	03/17/2020 18:32	WG1445259
Total Xylenes	U		0.00514	0.00699	1	03/17/2020 18:32	WG1445259
(S) Toluene-d8	*107*			*75.0-131*		*03/17/2020 18:32*	WG1445259
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*03/17/2020 18:32*	WG1445259
(S) 1,2-Dichloroethane-d4	*99.3*			*70.0-130*		*03/17/2020 18:32*	WG1445259

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	6.49		1.73	4.30	1	03/21/2020 13:28	WG1447675
C28-C40 Oil Range	7.75		0.295	4.30	1	03/21/2020 13:28	WG1447675
(S) o-Terphenyl	*55.6*			*18.0-148*		*03/21/2020 13:28*	WG1447675

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.7		1	03/19/2020 01:04	WG1445648

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1320		4.34	54.5	5	03/18/2020 01:12	WG1445291

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0379	B J	0.0237	0.109	1	03/17/2020 08:57	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	*96.8*			*77.0-120*		*03/17/2020 08:57*	WG1445120

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000436	0.00109	1	03/17/2020 18:51	WG1445259
Toluene	U		0.00136	0.00545	1	03/17/2020 18:51	WG1445259
Ethylbenzene	U		0.000578	0.00273	1	03/17/2020 18:51	WG1445259
Total Xylenes	U		0.00521	0.00709	1	03/17/2020 18:51	WG1445259
(S) Toluene-d8	*105*			*75.0-131*		*03/17/2020 18:51*	WG1445259
(S) 4-Bromofluorobenzene	*98.1*			*67.0-138*		*03/17/2020 18:51*	WG1445259
(S) 1,2-Dichloroethane-d4	*98.2*			*70.0-130*		*03/17/2020 18:51*	WG1445259

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	24.2		1.76	4.36	1	03/21/2020 02:54	WG1447675
C28-C40 Oil Range	44.4		0.299	4.36	1	03/21/2020 02:54	WG1447675
(S) o-Terphenyl	*55.3*			*18.0-148*		*03/21/2020 02:54*	WG1447675

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.7		1	03/19/2020 01:04	WG1445648

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	381		0.840	10.6	1	03/18/2020 01:40	WG1445291

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0440	B J	0.0229	0.106	1	03/17/2020 09:17	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	*96.6*			*77.0-120*		*03/17/2020 09:17*	WG1445120

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000423	0.00106	1	03/17/2020 19:10	WG1445259
Toluene	U		0.00132	0.00528	1	03/17/2020 19:10	WG1445259
Ethylbenzene	U		0.000560	0.00264	1	03/17/2020 19:10	WG1445259
Total Xylenes	U		0.00505	0.00687	1	03/17/2020 19:10	WG1445259
(S) Toluene-d8	*105*			*75.0-131*		*03/17/2020 19:10*	WG1445259
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*03/17/2020 19:10*	WG1445259
(S) 1,2-Dichloroethane-d4	*98.6*			*70.0-130*		*03/17/2020 19:10*	WG1445259

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	10.3		1.70	4.23	1	03/21/2020 03:07	WG1447675
C28-C40 Oil Range	30.8		0.289	4.23	1	03/21/2020 03:07	WG1447675
(S) o-Terphenyl	*71.3*			*18.0-148*		*03/21/2020 03:07*	WG1447675

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.4		1	03/19/2020 01:04	WG1445648

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	71.0		0.889	11.2	1	03/18/2020 02:09	WG1445291

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0439	B J	0.0243	0.112	1	03/17/2020 09:38	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	*96.0*			*77.0-120*		*03/17/2020 09:38*	WG1445120

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000447	0.00112	1	03/18/2020 08:16	WG1445267
Toluene	U		0.00140	0.00559	1	03/18/2020 08:16	WG1445267
Ethylbenzene	U		0.000593	0.00280	1	03/18/2020 08:16	WG1445267
Total Xylenes	U		0.00534	0.00727	1	03/18/2020 08:16	WG1445267
(S) Toluene-d8	*106*			*75.0-131*		*03/18/2020 08:16*	WG1445267
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*03/18/2020 08:16*	WG1445267
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*03/18/2020 08:16*	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	10.6		1.80	4.47	1	03/21/2020 02:41	WG1447675
C28-C40 Oil Range	31.3		0.306	4.47	1	03/21/2020 02:41	WG1447675
(S) o-Terphenyl	*58.7*			*18.0-148*		*03/21/2020 02:41*	WG1447675

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.2		1	03/19/2020 01:04	WG1445648

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	158		0.891	11.2	1	03/18/2020 02:18	WG1445291

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0381	B J	0.0243	0.112	1	03/17/2020 09:58	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	*92.0*			*77.0-120*		*03/17/2020 09:58*	WG1445120

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000448	0.00112	1	03/18/2020 08:37	WG1445267
Toluene	U		0.00140	0.00561	1	03/18/2020 08:37	WG1445267
Ethylbenzene	U		0.000594	0.00280	1	03/18/2020 08:37	WG1445267
Total Xylenes	U		0.00536	0.00729	1	03/18/2020 08:37	WG1445267
(S) Toluene-d8	*105*			*75.0-131*		*03/18/2020 08:37*	WG1445267
(S) 4-Bromofluorobenzene	*93.1*			*67.0-138*		*03/18/2020 08:37*	WG1445267
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*03/18/2020 08:37*	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	726		36.1	89.7	20	03/21/2020 03:57	WG1447675
C28-C40 Oil Range	1260		6.14	89.7	20	03/21/2020 03:57	WG1447675
(S) o-Terphenyl	*82.1*	J7		*18.0-148*		*03/21/2020 03:57*	WG1447675

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.4		1	03/19/2020 01:04	WG1445648

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	40.3		0.889	11.2	1	03/18/2020 02:28	WG1445291

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0422	B J	0.0243	0.112	1	03/17/2020 10:18	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	*96.9*			*77.0-120*		*03/17/2020 10:18*	WG1445120

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000447	0.00112	1	03/18/2020 08:58	WG1445267
Toluene	U		0.00140	0.00559	1	03/18/2020 08:58	WG1445267
Ethylbenzene	U		0.000593	0.00280	1	03/18/2020 08:58	WG1445267
Total Xylenes	U		0.00535	0.00727	1	03/18/2020 08:58	WG1445267
(S) Toluene-d8	*105*			*75.0-131*		*03/18/2020 08:58*	WG1445267
(S) 4-Bromofluorobenzene	*92.9*			*67.0-138*		*03/18/2020 08:58*	WG1445267
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*03/18/2020 08:58*	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.08	J	1.80	4.47	1	03/21/2020 13:02	WG1447675
C28-C40 Oil Range	2.72	J	0.306	4.47	1	03/21/2020 13:02	WG1447675
(S) o-Terphenyl	*48.9*			*18.0-148*		*03/21/2020 13:02*	WG1447675

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.0		1	03/19/2020 01:04	WG1445648

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	69.4		0.811	10.2	1	03/18/2020 02:37	WG1445291

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.189	B	0.0221	0.102	1	03/17/2020 10:39	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	*96.3*			*77.0-120*		*03/17/2020 10:39*	WG1445120

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000408	0.00102	1	03/18/2020 09:18	WG1445267
Toluene	U		0.00128	0.00510	1	03/18/2020 09:18	WG1445267
Ethylbenzene	U		0.000541	0.00255	1	03/18/2020 09:18	WG1445267
Total Xylenes	U		0.00488	0.00663	1	03/18/2020 09:18	WG1445267
(S) Toluene-d8	*108*			*75.0-131*		*03/18/2020 09:18*	WG1445267
(S) 4-Bromofluorobenzene	*94.4*			*67.0-138*		*03/18/2020 09:18*	WG1445267
(S) 1,2-Dichloroethane-d4	*97.8*			*70.0-130*		*03/18/2020 09:18*	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.64	4.08	1	03/21/2020 00:48	WG1447675
C28-C40 Oil Range	5.53		0.280	4.08	1	03/21/2020 00:48	WG1447675
(S) o-Terphenyl	*61.1*			*18.0-148*		*03/21/2020 00:48*	WG1447675

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.7		1	03/19/2020 00:54	WG1445649

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	248		0.822	10.3	1	03/18/2020 02:47	WG1445291

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0414	B J	0.0224	0.103	1	03/17/2020 10:59	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	*96.9*			*77.0-120*		*03/17/2020 10:59*	WG1445120

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000414	0.00103	1	03/18/2020 09:39	WG1445267
Toluene	U		0.00129	0.00517	1	03/18/2020 09:39	WG1445267
Ethylbenzene	U		0.000548	0.00259	1	03/18/2020 09:39	WG1445267
Total Xylenes	U		0.00494	0.00672	1	03/18/2020 09:39	WG1445267
(S) Toluene-d8	*107*			*75.0-131*		*03/18/2020 09:39*	WG1445267
(S) 4-Bromofluorobenzene	*94.9*			*67.0-138*		*03/18/2020 09:39*	WG1445267
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*03/18/2020 09:39*	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.66	4.14	1	03/21/2020 13:15	WG1447675
C28-C40 Oil Range	2.71	J	0.283	4.14	1	03/21/2020 13:15	WG1447675
(S) o-Terphenyl	*63.0*			*18.0-148*		*03/21/2020 13:15*	WG1447675

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.1		1	03/19/2020 00:54	WG1445649

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	4360		17.1	215	20	03/18/2020 02:57	WG1445291

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0496	B J	0.0233	0.107	1	03/17/2020 19:15	WG1445660
(S) a,a,a-Trifluorotoluene(FID)	*94.7*			*77.0-120*		*03/17/2020 19:15*	WG1445660

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000429	0.00107	1	03/18/2020 10:00	WG1445267
Toluene	U		0.00134	0.00537	1	03/18/2020 10:00	WG1445267
Ethylbenzene	U		0.000569	0.00268	1	03/18/2020 10:00	WG1445267
Total Xylenes	U		0.00513	0.00698	1	03/18/2020 10:00	WG1445267
(S) Toluene-d8	*107*			*75.0-131*		*03/18/2020 10:00*	WG1445267
(S) 4-Bromofluorobenzene	*92.8*			*67.0-138*		*03/18/2020 10:00*	WG1445267
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*03/18/2020 10:00*	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	176		34.6	85.9	20	03/21/2020 03:32	WG1447675
C28-C40 Oil Range	390		5.88	85.9	20	03/21/2020 03:32	WG1447675
(S) o-Terphenyl	*77.6*	J7		*18.0-148*		*03/21/2020 03:32*	WG1447675

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.4		1	03/19/2020 00:54	WG1445649

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	3800		17.0	214	20	03/18/2020 03:06	WG1445291

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0451	B J	0.0232	0.107	1	03/17/2020 19:35	WG1445660
(S) a,a,a-Trifluorotoluene(FID)	*93.4*			*77.0-120*		*03/17/2020 19:35*	WG1445660

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000428	0.00107	1	03/18/2020 10:21	WG1445267
Toluene	U		0.00134	0.00535	1	03/18/2020 10:21	WG1445267
Ethylbenzene	U		0.000567	0.00268	1	03/18/2020 10:21	WG1445267
Total Xylenes	U		0.00512	0.00696	1	03/18/2020 10:21	WG1445267
(S) Toluene-d8	*107*			*75.0-131*		*03/18/2020 10:21*	WG1445267
(S) 4-Bromofluorobenzene	*95.2*			*67.0-138*		*03/18/2020 10:21*	WG1445267
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*03/18/2020 10:21*	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	80.3		17.2	42.8	10	03/21/2020 03:44	WG1447675
C28-C40 Oil Range	172		2.93	42.8	10	03/21/2020 03:44	WG1447675
(S) o-Terphenyl	*35.5*			*18.0-148*		*03/21/2020 03:44*	WG1447675

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.3		1	03/19/2020 00:54	WG1445649

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	6720		17.0	214	20	03/18/2020 03:35	WG1445291

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0327	B J	0.0233	0.107	1	03/20/2020 16:07	WG1447538
(S) a,a,a-Trifluorotoluene(FID)	*98.6*			*77.0-120*		*03/20/2020 16:07*	WG1447538

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000429	0.00107	1	03/18/2020 10:41	WG1445267
Toluene	U		0.00134	0.00536	1	03/18/2020 10:41	WG1445267
Ethylbenzene	U		0.000568	0.00268	1	03/18/2020 10:41	WG1445267
Total Xylenes	U		0.00512	0.00697	1	03/18/2020 10:41	WG1445267
(S) Toluene-d8	*107*			*75.0-131*		*03/18/2020 10:41*	WG1445267
(S) 4-Bromofluorobenzene	*93.4*			*67.0-138*		*03/18/2020 10:41*	WG1445267
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*03/18/2020 10:41*	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	7.34		1.73	4.29	1	03/21/2020 01:00	WG1447675
C28-C40 Oil Range	13.7		0.294	4.29	1	03/21/2020 01:00	WG1447675
(S) o-Terphenyl	*53.5*			*18.0-148*		*03/21/2020 01:00*	WG1447675

Collected date/time: 03/06/20 12:20

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.2		1	03/19/2020 00:54	WG1445649

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	4830		16.9	212	20	03/18/2020 03:44	WG1445291

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0665	B J	0.0230	0.106	1	03/17/2020 07:31	WG1445128
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*03/17/2020 07:31*	WG1445128

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000424	0.00106	1	03/18/2020 11:02	WG1445267
Toluene	U		0.00133	0.00531	1	03/18/2020 11:02	WG1445267
Ethylbenzene	U		0.000562	0.00265	1	03/18/2020 11:02	WG1445267
Total Xylenes	U		0.00507	0.00690	1	03/18/2020 11:02	WG1445267
(S) Toluene-d8	*105*			*75.0-131*		*03/18/2020 11:02*	WG1445267
(S) 4-Bromofluorobenzene	*91.9*			*67.0-138*		*03/18/2020 11:02*	WG1445267
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*03/18/2020 11:02*	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	6.42		1.71	4.24	1	03/21/2020 01:13	WG1447675
C28-C40 Oil Range	12.8		0.291	4.24	1	03/21/2020 01:13	WG1447675
(S) o-Terphenyl	*61.2*			*18.0-148*		*03/21/2020 01:13*	WG1447675

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.4		1	03/19/2020 00:54	WG1445649

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	295		0.842	10.6	1	03/18/2020 03:54	WG1445291

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0606	B J	0.0230	0.106	1	03/17/2020 07:53	WG1445128
(S) a,a,a-Trifluorotoluene(FID)	*95.0*			*77.0-120*		*03/17/2020 07:53*	WG1445128

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000424	0.00106	1	03/18/2020 11:23	WG1445267
Toluene	U		0.00132	0.00530	1	03/18/2020 11:23	WG1445267
Ethylbenzene	U		0.000561	0.00265	1	03/18/2020 11:23	WG1445267
Total Xylenes	U		0.00506	0.00689	1	03/18/2020 11:23	WG1445267
(S) Toluene-d8	*91.5*			*75.0-131*		*03/18/2020 11:23*	WG1445267
(S) 4-Bromofluorobenzene	*95.3*			*67.0-138*		*03/18/2020 11:23*	WG1445267
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*03/18/2020 11:23*	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	949		85.3	212	50	03/21/2020 03:19	WG1447675
C28-C40 Oil Range	1920		14.5	212	50	03/21/2020 03:19	WG1447675
(S) o-Terphenyl	*77.8*	J7		*18.0-148*		*03/21/2020 03:19*	WG1447675

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.4		1	03/19/2020 00:54	WG1445649

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	302		0.825	10.4	1	03/18/2020 04:03	WG1445291

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0505	B J	0.0225	0.104	1	03/17/2020 08:25	WG1445128
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*03/17/2020 08:25*	WG1445128

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000415	0.00104	1	03/18/2020 11:43	WG1445267
Toluene	U		0.00130	0.00519	1	03/18/2020 11:43	WG1445267
Ethylbenzene	U		0.000550	0.00259	1	03/18/2020 11:43	WG1445267
Total Xylenes	U		0.00496	0.00675	1	03/18/2020 11:43	WG1445267
(S) Toluene-d8	*89.9*			*75.0-131*		*03/18/2020 11:43*	WG1445267
(S) 4-Bromofluorobenzene	*89.3*			*67.0-138*		*03/18/2020 11:43*	WG1445267
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*03/18/2020 11:43*	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.94	J	1.67	4.15	1	03/21/2020 01:26	WG1447675
C28-C40 Oil Range	7.12		0.284	4.15	1	03/21/2020 01:26	WG1447675
(S) o-Terphenyl	*69.6*			*18.0-148*		*03/21/2020 01:26*	WG1447675

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.9		1	03/19/2020 00:54	WG1445649

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	2.92	B J	0.804	10.1	1	03/18/2020 00:58	WG1445292

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0670	B J	0.0219	0.101	1	03/17/2020 09:13	WG1445128
(S) a,a,a-Trifluorotoluene(FID)	*102*			*77.0-120*		*03/17/2020 09:13*	WG1445128

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000405	0.00101	1	03/18/2020 12:04	WG1445267
Toluene	U		0.00126	0.00506	1	03/18/2020 12:04	WG1445267
Ethylbenzene	U		0.000536	0.00253	1	03/18/2020 12:04	WG1445267
Total Xylenes	U		0.00483	0.00657	1	03/18/2020 12:04	WG1445267
(S) Toluene-d8	*101*			*75.0-131*		*03/18/2020 12:04*	WG1445267
(S) 4-Bromofluorobenzene	*92.1*			*67.0-138*		*03/18/2020 12:04*	WG1445267
(S) 1,2-Dichloroethane-d4	*98.6*			*70.0-130*		*03/18/2020 12:04*	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.63	4.05	1	03/21/2020 01:38	WG1447675
C28-C40 Oil Range	7.73		0.277	4.05	1	03/21/2020 01:38	WG1447675
(S) o-Terphenyl	*60.1*			*18.0-148*		*03/21/2020 01:38*	WG1447675

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.6		1	03/19/2020 00:54	WG1445649

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	3.32	B J	0.823	10.3	1	03/18/2020 01:51	WG1445292

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0556	B J	0.0225	0.103	1	03/17/2020 09:57	WG1445128
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*03/17/2020 09:57*	WG1445128

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000414	0.00103	1	03/18/2020 12:24	WG1445267
Toluene	U		0.00129	0.00517	1	03/18/2020 12:24	WG1445267
Ethylbenzene	U		0.000549	0.00259	1	03/18/2020 12:24	WG1445267
Total Xylenes	U		0.00495	0.00673	1	03/18/2020 12:24	WG1445267
(S) Toluene-d8	*124*			*75.0-131*		*03/18/2020 12:24*	WG1445267
(S) 4-Bromofluorobenzene	*94.6*			*67.0-138*		*03/18/2020 12:24*	WG1445267
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*03/18/2020 12:24*	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.79	J	1.67	4.14	1	03/21/2020 02:29	WG1447675
C28-C40 Oil Range	18.2		0.284	4.14	1	03/21/2020 02:29	WG1447675
(S) o-Terphenyl	*72.1*			*18.0-148*		*03/21/2020 02:29*	WG1447675

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.6		1	03/19/2020 00:54	WG1445649

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	2.67	B J	0.806	10.1	1	03/18/2020 02:09	WG1445292

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0675	B J	0.0220	0.101	1	03/17/2020 10:20	WG1445128
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*03/17/2020 10:20*	WG1445128

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000406	0.00101	1	03/18/2020 12:45	WG1445267
Toluene	U		0.00127	0.00507	1	03/18/2020 12:45	WG1445267
Ethylbenzene	U		0.000537	0.00253	1	03/18/2020 12:45	WG1445267
Total Xylenes	U		0.00485	0.00659	1	03/18/2020 12:45	WG1445267
(S) Toluene-d8	*105*			*75.0-131*		*03/18/2020 12:45*	WG1445267
(S) 4-Bromofluorobenzene	*91.0*			*67.0-138*		*03/18/2020 12:45*	WG1445267
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*03/18/2020 12:45*	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.91	J	1.63	4.06	1	03/21/2020 01:51	WG1447675
C28-C40 Oil Range	8.03		0.278	4.06	1	03/21/2020 01:51	WG1447675
(S) o-Terphenyl	*67.3*			*18.0-148*		*03/21/2020 01:51*	WG1447675

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.0		1	03/19/2020 00:43	WG1445651

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	3.96	B J	0.828	10.4	1	03/18/2020 02:27	WG1445292

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0729	B J	0.0226	0.104	1	03/17/2020 10:42	WG1445128
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*03/17/2020 10:42*	WG1445128

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000417	0.00104	1	03/18/2020 13:06	WG1445267
Toluene	U		0.00130	0.00521	1	03/18/2020 13:06	WG1445267
Ethylbenzene	U		0.000552	0.00261	1	03/18/2020 13:06	WG1445267
Total Xylenes	U		0.00498	0.00677	1	03/18/2020 13:06	WG1445267
(S) Toluene-d8	*105*			*75.0-131*		*03/18/2020 13:06*	WG1445267
(S) 4-Bromofluorobenzene	*89.9*			*67.0-138*		*03/18/2020 13:06*	WG1445267
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*03/18/2020 13:06*	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.15	J	1.68	4.17	1	03/21/2020 02:03	WG1447675
C28-C40 Oil Range	8.49		0.286	4.17	1	03/21/2020 02:03	WG1447675
(S) o-Terphenyl	*71.7*			*18.0-148*		*03/21/2020 02:03*	WG1447675

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.9		1	03/19/2020 00:43	WG1445651

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	838		4.33	54.4	5	03/18/2020 02:45	WG1445292

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0648	B J	0.0236	0.109	1	03/17/2020 11:03	WG1445128
(S) a,a,a-Trifluorotoluene(FID)	*102*			*77.0-120*		*03/17/2020 11:03*	WG1445128

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000435	0.00109	1	03/18/2020 13:26	WG1445267
Toluene	U		0.00136	0.00544	1	03/18/2020 13:26	WG1445267
Ethylbenzene	U		0.000577	0.00272	1	03/18/2020 13:26	WG1445267
Total Xylenes	U		0.00520	0.00707	1	03/18/2020 13:26	WG1445267
(S) Toluene-d8	*103*			*75.0-131*		*03/18/2020 13:26*	WG1445267
(S) 4-Bromofluorobenzene	*91.1*			*67.0-138*		*03/18/2020 13:26*	WG1445267
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*03/18/2020 13:26*	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	20.4		1.75	4.35	1	03/21/2020 02:16	WG1447675
C28-C40 Oil Range	36.3		0.298	4.35	1	03/21/2020 02:16	WG1447675
(S) o-Terphenyl	*50.5*			*18.0-148*		*03/21/2020 02:16*	WG1447675

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.6		1	03/19/2020 00:43	WG1445651

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	432		0.832	10.5	1	03/18/2020 03:03	WG1445292

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0227	0.105	1	03/17/2020 11:14	WG1445199
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*77.0-120*		*03/17/2020 11:14*	WG1445199

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000419	0.00105	1	03/18/2020 13:47	WG1445267
Toluene	U		0.00131	0.00523	1	03/18/2020 13:47	WG1445267
Ethylbenzene	U		0.000555	0.00262	1	03/18/2020 13:47	WG1445267
Total Xylenes	U		0.00500	0.00680	1	03/18/2020 13:47	WG1445267
(S) Toluene-d8	*103*			*75.0-131*		*03/18/2020 13:47*	WG1445267
(S) 4-Bromofluorobenzene	*90.9*			*67.0-138*		*03/18/2020 13:47*	WG1445267
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*03/18/2020 13:47*	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.68	4.19	1	03/20/2020 00:31	WG1447038
C28-C40 Oil Range	1.57	J	0.287	4.19	1	03/20/2020 00:31	WG1447038
(S) o-Terphenyl	*72.0*			*18.0-148*		*03/20/2020 00:31*	WG1447038

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.5		1	03/19/2020 00:43	WG1445651

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	2690		8.78	110	10	03/18/2020 03:57	WG1445292

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0240	0.110	1	03/17/2020 11:38	WG1445199
(S) a,a,a-Trifluorotoluene(FID)	*99.9*			*77.0-120*		*03/17/2020 11:38*	WG1445199

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000442	0.00110	1	03/18/2020 14:07	WG1445267
Toluene	U		0.00138	0.00552	1	03/18/2020 14:07	WG1445267
Ethylbenzene	U		0.000585	0.00276	1	03/18/2020 14:07	WG1445267
Total Xylenes	U		0.00528	0.00718	1	03/18/2020 14:07	WG1445267
(S) Toluene-d8	*105*			*75.0-131*		*03/18/2020 14:07*	WG1445267
(S) 4-Bromofluorobenzene	*91.4*			*67.0-138*		*03/18/2020 14:07*	WG1445267
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*03/18/2020 14:07*	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.78	4.42	1	03/20/2020 00:45	WG1447038
C28-C40 Oil Range	1.60	J	0.303	4.42	1	03/20/2020 00:45	WG1447038
(S) o-Terphenyl	*72.6*			*18.0-148*		*03/20/2020 00:45*	WG1447038

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.6		1	03/19/2020 00:43	WG1445651

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	3030		8.50	107	10	03/18/2020 04:15	WG1445292

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0232	0.107	1	03/17/2020 12:14	WG1445199
(S) a,a,a-Trifluorotoluene(FID)	*99.2*			*77.0-120*		*03/17/2020 12:14*	WG1445199

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000428	0.00107	1	03/18/2020 14:28	WG1445267
Toluene	U		0.00134	0.00534	1	03/18/2020 14:28	WG1445267
Ethylbenzene	U		0.000567	0.00267	1	03/18/2020 14:28	WG1445267
Total Xylenes	U		0.00511	0.00695	1	03/18/2020 14:28	WG1445267
(S) Toluene-d8	*107*			*75.0-131*		*03/18/2020 14:28*	WG1445267
(S) 4-Bromofluorobenzene	*93.2*			*67.0-138*		*03/18/2020 14:28*	WG1445267
(S) 1,2-Dichloroethane-d4	*99.1*			*70.0-130*		*03/18/2020 14:28*	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.46	J	1.72	4.28	1	03/20/2020 10:45	WG1447038
C28-C40 Oil Range	10.8		0.293	4.28	1	03/20/2020 10:45	WG1447038
(S) o-Terphenyl	*77.0*			*18.0-148*		*03/20/2020 10:45*	WG1447038

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.2		1	03/19/2020 00:43	WG1445651

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	42.6		0.853	10.7	1	03/18/2020 04:32	WG1445292

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0233	0.107	1	03/18/2020 17:19	WG1446150
(S) a,a,a-Trifluorotoluene(FID)	*97.0*			*77.0-120*		*03/18/2020 17:19*	WG1446150

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U	J3	0.000429	0.00107	1	03/18/2020 14:48	WG1445267
Toluene	U	J3	0.00134	0.00537	1	03/18/2020 14:48	WG1445267
Ethylbenzene	U	J3	0.000569	0.00268	1	03/18/2020 14:48	WG1445267
Total Xylenes	U	J3	0.00513	0.00697	1	03/18/2020 14:48	WG1445267
(S) Toluene-d8	*107*			*75.0-131*		*03/18/2020 14:48*	WG1445267
(S) 4-Bromofluorobenzene	*93.1*			*67.0-138*		*03/18/2020 14:48*	WG1445267
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*03/18/2020 14:48*	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.73	4.29	1	03/20/2020 10:59	WG1447038
C28-C40 Oil Range	5.92		0.294	4.29	1	03/20/2020 10:59	WG1447038
(S) o-Terphenyl	*68.7*			*18.0-148*		*03/20/2020 10:59*	WG1447038

AH-11E (0-1)
Collected date/time: 03/10/20 11:10

ONE LAB. NATIONWIDE.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.5		1	03/19/2020 00:43	WG1445651

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	3.39	B J	0.833	10.5	1	03/18/2020 05:26	WG1445292

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0227	0.105	1	03/17/2020 13:02	WG1445199
(S) a,a,a-Trifluorotoluene(FID)	*99.1*			*77.0-120*		*03/17/2020 13:02*	WG1445199

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000419	0.00105	1	03/17/2020 17:30	WG1445419
Toluene	U		0.00131	0.00524	1	03/17/2020 17:30	WG1445419
Ethylbenzene	U		0.000555	0.00262	1	03/17/2020 17:30	WG1445419
Total Xylenes	U		0.00501	0.00681	1	03/17/2020 17:30	WG1445419
(S) Toluene-d8	*102*			*75.0-131*		*03/17/2020 17:30*	WG1445419
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*03/17/2020 17:30*	WG1445419
(S) 1,2-Dichloroethane-d4	*99.1*			*70.0-130*		*03/17/2020 17:30*	WG1445419

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	8.83		1.69	4.19	1	03/20/2020 10:32	WG1447038
C28-C40 Oil Range	28.8		0.287	4.19	1	03/20/2020 10:32	WG1447038
(S) o-Terphenyl	*73.9*			*18.0-148*		*03/20/2020 10:32*	WG1447038

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.5		1	03/19/2020 00:43	WG1445651

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	45.7		0.850	10.7	1	03/18/2020 05:44	WG1445292

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0232	0.107	1	03/17/2020 13:26	WG1445199
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*		*03/17/2020 13:26*	WG1445199

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000428	0.00107	1	03/17/2020 17:49	WG1445419
Toluene	U		0.00134	0.00535	1	03/17/2020 17:49	WG1445419
Ethylbenzene	U		0.000567	0.00267	1	03/17/2020 17:49	WG1445419
Total Xylenes	U		0.00511	0.00695	1	03/17/2020 17:49	WG1445419
(S) Toluene-d8	*101*			*75.0-131*		*03/17/2020 17:49*	WG1445419
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*03/17/2020 17:49*	WG1445419
(S) 1,2-Dichloroethane-d4	*97.3*			*70.0-130*		*03/17/2020 17:49*	WG1445419

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.82	J	1.72	4.28	1	03/20/2020 10:18	WG1447038
C28-C40 Oil Range	16.5		0.293	4.28	1	03/20/2020 10:18	WG1447038
(S) o-Terphenyl	*76.7*			*18.0-148*		*03/20/2020 10:18*	WG1447038

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.9		1	03/19/2020 00:43	WG1445651

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	225		4.80	60.3	5	03/18/2020 06:02	WG1445292

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.177		0.0262	0.121	1	03/17/2020 13:50	WG1445199
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*03/17/2020 13:50*	WG1445199

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000483	0.00121	1	03/17/2020 18:08	WG1445419
Toluene	U		0.00151	0.00603	1	03/17/2020 18:08	WG1445419
Ethylbenzene	U		0.000640	0.00302	1	03/17/2020 18:08	WG1445419
Total Xylenes	U		0.00577	0.00784	1	03/17/2020 18:08	WG1445419
(S) Toluene-d8	*103*			*75.0-131*		*03/17/2020 18:08*	WG1445419
(S) 4-Bromofluorobenzene	*99.5*			*67.0-138*		*03/17/2020 18:08*	WG1445419
(S) 1,2-Dichloroethane-d4	*98.2*			*70.0-130*		*03/17/2020 18:08*	WG1445419

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	11.8		1.94	4.83	1	03/20/2020 00:58	WG1447038
C28-C40 Oil Range	14.2		0.331	4.83	1	03/20/2020 00:58	WG1447038
(S) o-Terphenyl	*45.0*			*18.0-148*		*03/20/2020 00:58*	WG1447038

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.1		1	03/19/2020 00:43	WG1445651

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	545		0.836	10.5	1	03/18/2020 06:20	WG1445292

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0631	B J	0.0228	0.105	1	03/17/2020 09:35	WG1445128
(S) a,a,a-Trifluorotoluene(FID)	*103*			*77.0-120*		*03/17/2020 09:35*	WG1445128

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000420	0.00105	1	03/17/2020 18:27	WG1445419
Toluene	U		0.00131	0.00526	1	03/17/2020 18:27	WG1445419
Ethylbenzene	U		0.000557	0.00263	1	03/17/2020 18:27	WG1445419
Total Xylenes	U		0.00502	0.00683	1	03/17/2020 18:27	WG1445419
(S) Toluene-d8	*102*			*75.0-131*		*03/17/2020 18:27*	WG1445419
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*03/17/2020 18:27*	WG1445419
(S) 1,2-Dichloroethane-d4	*97.9*			*70.0-130*		*03/17/2020 18:27*	WG1445419

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.69	4.20	1	03/20/2020 09:52	WG1447038
C28-C40 Oil Range	0.557	J	0.288	4.20	1	03/20/2020 09:52	WG1447038
(S) o-Terphenyl	*79.6*			*18.0-148*		*03/20/2020 09:52*	WG1447038

Method Blank (MB)

(MB) R3510267-1 03/19/20 01:48

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

L1199114-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1199114-01 03/19/20 01:48 • (DUP) R3510267-3 03/19/20 01:48

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	95.9	96.0	1	0.114		10

Laboratory Control Sample (LCS)

(LCS) R3510267-2 03/19/20 01:48

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

Method Blank (MB)

(MB) R3510263-1 03/19/20 01:36

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

L1199114-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1199114-12 03/19/20 01:36 • (DUP) R3510263-3 03/19/20 01:36

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	94.6	94.5	1	0.0688		10

Laboratory Control Sample (LCS)

(LCS) R3510263-2 03/19/20 01:36

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.1	100	85.0-115	

Method Blank (MB)

(MB) R3510262-1 03/19/20 01:27

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

L1199114-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1199114-20 03/19/20 01:27 • (DUP) R3510262-3 03/19/20 01:27

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	92.2	92.5	1	0.225		10

Laboratory Control Sample (LCS)

(LCS) R3510262-2 03/19/20 01:27

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

Method Blank (MB)

(MB) R3510259-1 03/19/20 01:04

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

L1199114-30 Original Sample (OS) • Duplicate (DUP)

(OS) L1199114-30 03/19/20 01:04 • (DUP) R3510259-3 03/19/20 01:04

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	89.8	89.7	1	0.144		10

Laboratory Control Sample (LCS)

(LCS) R3510259-2 03/19/20 01:04

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

Method Blank (MB)

(MB) R3510249-1 03/19/20 00:54

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

L1199114-47 Original Sample (OS) • Duplicate (DUP)

(OS) L1199114-47 03/19/20 00:54 • (DUP) R3510249-3 03/19/20 00:54

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	98.6	98.6	1	0.00943		10

Laboratory Control Sample (LCS)

(LCS) R3510249-2 03/19/20 00:54

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

Method Blank (MB)

(MB) R3510245-1 03/19/20 00:43

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.0160			

L1199114-49 Original Sample (OS) • Duplicate (DUP)

(OS) L1199114-49 03/19/20 00:43 • (DUP) R3510245-3 03/19/20 00:43

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	91.9	92.0	1	0.0850		10

Laboratory Control Sample (LCS)

(LCS) R3510245-2 03/19/20 00:43

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	49.8	99.7	85.0-115	

Method Blank (MB)

(MB) R3510072-1 03/18/20 16:03

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	1.57	J	0.795	10.0

L1199114-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1199114-05 03/18/20 20:48 • (DUP) R3510072-6 03/18/20 20:58

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	38.0	39.9	1	4.81		20

L1199095-34 Original Sample (OS) • Duplicate (DUP)

(OS) L1199095-34 03/18/20 21:08 • (DUP) R3510072-7 03/18/20 21:17

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	12800	13000	20	1.24		20

Laboratory Control Sample (LCS)

(LCS) R3510072-2 03/18/20 16:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	188	94.0	90.0-110	

L1199095-46 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1199095-46 03/18/20 18:54 • (MS) R3510072-4 03/18/20 19:04 • (MSD) R3510072-5 03/18/20 19:13

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	500	11200	12900	12900	328	335	1	80.0-120	E V	E V	0.270	20

Method Blank (MB)

(MB) R3509981-1 03/18/20 10:14

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

L1199114-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1199114-06 03/18/20 10:55 • (DUP) R3509981-3 03/18/20 11:04

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	628	672	1	6.75		20

L1199114-25 Original Sample (OS) • Duplicate (DUP)

(OS) L1199114-25 03/18/20 15:02 • (DUP) R3509981-6 03/18/20 15:12

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	3.69	3.75	1	1.62	J	20

Laboratory Control Sample (LCS)

(LCS) R3509981-2 03/18/20 10:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	185	92.7	90.0-110	

L1199114-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1199114-12 03/18/20 12:01 • (MS) R3509981-4 03/18/20 12:30 • (MSD) R3509981-5 03/18/20 12:39

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	529	209	797	737	111	99.8	1	80.0-120			7.77	20

Method Blank (MB)

(MB) R3509647-1 03/17/20 23:34

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	2.44	J	0.795	10.0

L1199114-29 Original Sample (OS) • Duplicate (DUP)

(OS) L1199114-29 03/18/20 00:34 • (DUP) R3509647-3 03/18/20 00:43

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1080	1080	5	0.547		20

L1199596-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1199596-01 03/18/20 04:13 • (DUP) R3509647-6 03/18/20 04:22

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	12.9	12.0	1	7.33		20

Laboratory Control Sample (LCS)

(LCS) R3509647-2 03/17/20 23:44

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	192	96.2	90.0-110	

L1199114-33 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1199114-33 03/18/20 01:40 • (MS) R3509647-4 03/18/20 01:50 • (MSD) R3509647-5 03/18/20 01:59

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	528	381	901	886	98.5	95.6	1	80.0-120			1.68	20

Method Blank (MB)

(MB) R3509727-1 03/17/20 21:56

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	2.37	J	0.795	10.0

L1198966-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1198966-01 03/17/20 23:46 • (DUP) R3509727-3 03/18/20 00:04

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1.66	0.000	1	200	P1	20

L1199114-57 Original Sample (OS) • Duplicate (DUP)

(OS) L1199114-57 03/18/20 06:20 • (DUP) R3509727-6 03/18/20 06:38

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	545	548	1	0.624		20

Laboratory Control Sample (LCS)

(LCS) R3509727-2 03/17/20 22:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	205	103	90.0-110	

L1199114-50 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1199114-50 03/18/20 03:03 • (MS) R3509727-4 03/18/20 03:21 • (MSD) R3509727-5 03/18/20 03:39

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	523	432	975	978	104	104	1	80.0-120			0.271	20

Method Blank (MB)

(MB) R3509356-2 03/16/20 23:51

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0529	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*97.8*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3509356-1 03/16/20 23:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.60	102	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*112*	*77.0-120*	

Method Blank (MB)

(MB) R3509468-3 03/17/20 00:31

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0315	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*97.8*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3509468-2 03/16/20 23:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.76	105	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*107*	*77.0-120*	

Method Blank (MB)

(MB) R3510670-2 03/17/20 00:47

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0503	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*104*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3510670-1 03/17/20 00:02

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.51	100	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*101*	*77.0-120*	

Method Blank (MB)

(MB) R3509759-3 03/17/20 10:26

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*

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

(LCS) R3509759-1 03/17/20 08:20 • (LCSD) R3509759-2 03/17/20 09:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	4.80	4.22	87.3	76.7	72.0-127			12.9	20
(S) a,a,a-Trifluorotoluene(FID)				*105*	*104*	*77.0-120*				

Method Blank (MB)

(MB) R3509541-2 03/17/20 11:39

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

Laboratory Control Sample (LCS)

(LCS) R3509541-1 03/17/20 10:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.10	92.7	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*108*	*77.0-120*	

Method Blank (MB)

(MB) R3510206-3 03/17/20 16:17

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0249	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*102*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3510206-1 03/17/20 15:15

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.30	96.4	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*110*	*77.0-120*	

Method Blank (MB)

(MB) R3511077-2 03/18/20 00:09

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3511077-1 03/17/20 22:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.15	75.5	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*106*	*77.0-120*	

Method Blank (MB)

(MB) R3510978-3 03/20/20 14:34

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0254	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.4*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3510978-2 03/20/20 13:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.15	93.6	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*111*	*77.0-120*	

Method Blank (MB)

(MB) R3509307-3 03/16/20 23:31

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	*100*			*75.0-131*
(S) 4-Bromofluorobenzene	*112*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*127*			*70.0-130*

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

(LCS) R3509307-1 03/16/20 21:16 • (LCSD) R3509307-2 03/16/20 22:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.112	0.113	89.6	90.4	70.0-123			0.889	20
Ethylbenzene	0.125	0.108	0.102	86.4	81.6	74.0-126			5.71	20
Toluene	0.125	0.100	0.0953	80.0	76.2	75.0-121			4.81	20
Xylenes, Total	0.375	0.289	0.278	77.1	74.1	72.0-127			3.88	20
(S) Toluene-d8				*99.3*	*94.1*	*75.0-131*				
(S) 4-Bromofluorobenzene				*114*	*104*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*126*	*129*	*70.0-130*				

L1199114-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1199114-20 03/17/20 06:56 • (MS) R3509307-4 03/17/20 07:16 • (MSD) R3509307-5 03/17/20 07:37

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.136	U	0.113	0.113	83.2	83.2	1	10.0-149			0.000	37
Ethylbenzene	0.136	U	0.127	0.138	93.6	102	1	10.0-160			8.20	38
Toluene	0.136	U	0.108	0.116	80.0	85.6	1	10.0-156			6.76	38
Xylenes, Total	0.407	U	0.337	0.357	82.9	87.7	1	10.0-160			5.63	38
(S) Toluene-d8					*102*	*101*		*75.0-131*				
(S) 4-Bromofluorobenzene					*119*	*120*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*117*	*116*		*70.0-130*				

Method Blank (MB)

(MB) R3509519-2 03/17/20 11:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	*107*			*75.0-131*
(S) 4-Bromofluorobenzene	*101*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3509519-1 03/17/20 08:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.110	88.0	70.0-123	
Ethylbenzene	0.125	0.139	111	74.0-126	
Toluene	0.125	0.115	92.0	75.0-121	
Xylenes, Total	0.375	0.423	113	72.0-127	
(S) Toluene-d8			*104*	*75.0-131*	
(S) 4-Bromofluorobenzene			*103*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*104*	*70.0-130*	

L1199073-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1199073-16 03/17/20 13:47 • (MS) R3509519-3 03/17/20 19:29 • (MSD) R3509519-4 03/17/20 19:47

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	ND	0.0649	0.0396	51.9	31.7	1	10.0-149		J3	48.4	37
Ethylbenzene	0.125	ND	0.0789	0.0451	63.1	36.1	1	10.0-160		J3	54.5	38
Toluene	0.125	ND	0.0678	0.0410	54.2	32.8	1	10.0-156		J3	49.3	38
Xylenes, Total	0.375	ND	0.243	0.151	64.8	40.3	1	10.0-160		J3	46.7	38
(S) Toluene-d8					*105*	*101*		*75.0-131*				
(S) 4-Bromofluorobenzene					*97.9*	*106*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*103*	*108*		*70.0-130*				

Method Blank (MB)

(MB) R3510640-3 03/18/20 07:56

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	*104*			*75.0-131*
(S) 4-Bromofluorobenzene	*91.8*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*98.6*			*70.0-130*

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

(LCS) R3510640-1 03/18/20 06:33 • (LCSD) R3510640-2 03/18/20 06:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.122	0.119	97.6	95.2	70.0-123			2.49	20
Ethylbenzene	0.125	0.111	0.116	88.8	92.8	74.0-126			4.41	20
Toluene	0.125	0.122	0.143	97.6	114	75.0-121			15.8	20
Xylenes, Total	0.375	0.323	0.338	86.1	90.1	72.0-127			4.54	20
(S) Toluene-d8				*101*	*124*	*75.0-131*				
(S) 4-Bromofluorobenzene				*76.1*	*92.4*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*120*	*122*	*70.0-130*				

L1199114-53 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1199114-53 03/18/20 14:48 • (MS) R3510640-4 03/18/20 15:08 • (MSD) R3510640-5 03/18/20 15:29

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.134	U	0.0913	0.0378	68.1	28.2	1	10.0-149		J3	83.0	37
Ethylbenzene	0.134	U	0.0880	0.0349	65.6	26.0	1	10.0-160		J3	86.5	38
Toluene	0.134	U	0.0954	0.0388	71.1	29.0	1	10.0-156		J3	84.3	38
Xylenes, Total	0.402	U	0.269	0.113	66.9	28.0	1	10.0-160		J3	82.0	38
(S) Toluene-d8					*106*	*103*		*75.0-131*				
(S) 4-Bromofluorobenzene					*92.9*	*94.9*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*107*	*104*		*70.0-130*				

Method Blank (MB)

(MB) R3511093-2 03/17/20 17:11

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	*103*			*75.0-131*
(S) 4-Bromofluorobenzene	*102*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*97.4*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3511093-1 03/17/20 16:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.109	87.2	70.0-123	
Ethylbenzene	0.125	0.114	91.2	74.0-126	
Toluene	0.125	0.107	85.6	75.0-121	
Xylenes, Total	0.375	0.366	97.6	72.0-127	
(S) Toluene-d8			*102*	*75.0-131*	
(S) 4-Bromofluorobenzene			*101*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*102*	*70.0-130*	

L1199114-57 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1199114-57 03/17/20 18:27 • (MS) R3511093-3 03/17/20 23:48 • (MSD) R3511093-4 03/18/20 00:07

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.131	U	0.127	0.121	96.8	92.0	1	10.0-149			5.08	37
Ethylbenzene	0.131	U	0.125	0.119	95.2	90.4	1	10.0-160			5.17	38
Toluene	0.131	U	0.125	0.121	95.2	92.0	1	10.0-156			3.42	38
Xylenes, Total	0.394	U	0.402	0.383	102	97.1	1	10.0-160			4.83	38
(S) Toluene-d8					*100*	*101*		*75.0-131*				
(S) 4-Bromofluorobenzene					*97.2*	*98.6*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*97.0*	*97.1*		*70.0-130*				

Method Blank (MB)

(MB) R3509778-1 03/17/20 20:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*70.1*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3509778-2 03/17/20 20:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	37.5	75.0	50.0-150	
(S) o-Terphenyl			*77.2*	*18.0-148*	

L1199114-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1199114-04 03/17/20 22:04 • (MS) R3509778-3 03/17/20 22:16 • (MSD) R3509778-4 03/17/20 22:29

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	50.7	2.16	35.2	38.0	65.2	70.0	1	50.0-150			7.54	20
(S) o-Terphenyl					*65.5*	*60.0*		*18.0-148*				

Method Blank (MB)

(MB) R3510563-1 03/19/20 21:00

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*64.3*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3510563-2 03/19/20 21:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	36.5	73.0	50.0-150	
(S) o-Terphenyl			*83.2*	*18.0-148*	

L1199114-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1199114-20 03/19/20 21:57 • (MS) R3510563-3 03/19/20 22:14 • (MSD) R3510563-4 03/19/20 22:27

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	53.3	U	36.4	36.8	68.3	69.5	1	50.0-150			0.889	20
(S) o-Terphenyl					*65.7*	*65.8*		*18.0-148*				

Method Blank (MB)

(MB) R3510569-1 03/19/20 22:30

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*75.4*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3510569-2 03/19/20 22:44

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	43.2	86.4	50.0-150	
(S) o-Terphenyl			*95.9*	*18.0-148*	

L1198863-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1198863-14 03/20/20 03:10 • (MS) R3510569-3 03/20/20 03:23 • (MSD) R3510569-4 03/20/20 03:36

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	50.0	ND	53.2	48.5	76.4	67.0	5	50.0-150			9.24	20
(S) o-Terphenyl					*103*	*95.8*		*18.0-148*				

Sample Narrative:

OS: Cannot run at lower dilution due to viscosity of extract

Method Blank (MB)

(MB) R3510943-3 03/21/20 12:37

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*58.7*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3510943-4 03/21/20 12:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	36.1	72.2	50.0-150	
(S) o-Terphenyl			*81.2*	*18.0-148*	

L1199114-30 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1199114-30 03/21/20 04:09 • (MS) R3510943-1 03/21/20 04:22 • (MSD) R3510943-2 03/21/20 04:35

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	55.3	416	452	488	64.4	129	20	50.0-150			7.58	20
(S) o-Terphenyl					*63.9*	*57.6*		*18.0-148*	J7	J7		

Guide to Reading and Understanding Your Laboratory Report

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

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

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

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

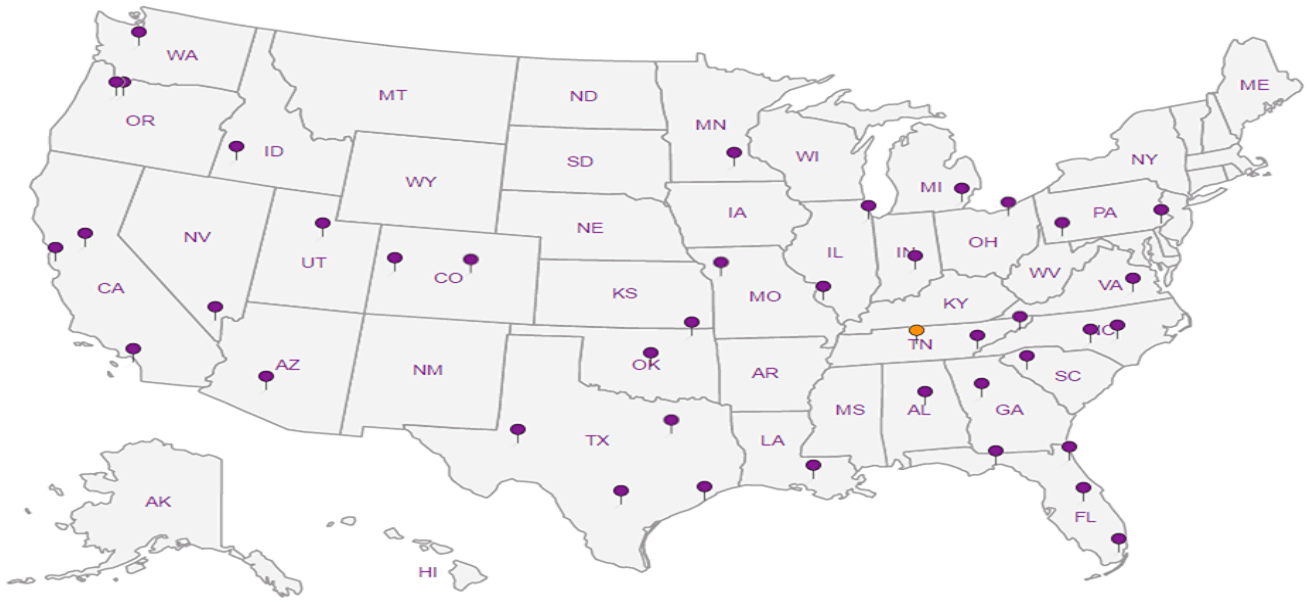
Third Party Federal Accreditations

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

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

Our Locations

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



ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
ConocoPhillips - Tetra Tech	212C-MD-02119	L1199114	03/24/20 18:17	101 of 109

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

1199114

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	COP MCA 2 C Header Release	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02119
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Adrian
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
-01	AH-4E (0-1')	3/3/2020	1100		X				X			1	N	X		X												X						
02	AH-4E (3-4')	3/3/2020	1110		X				X			1	N	X		X												X						
03	AH-4W (0-1')	3/3/2020	1120		X				X			1	N	X		X												X						
04	AH-4W (3-4')	3/3/2020	1130		X				X			1	N	X		X												X						
05	T-5 (1-2')	3/5/2020	1150		X				X			1	N	X		X												X						
06	T-5 (3-4')	3/5/2020	1200		X				X			1	N	X		X												X						
07	T-5 (5-6')	3/5/2020	1210		X				X			1	N	X		X												X						
08	T-5 (7-8')	3/5/2020	1220		X				X			1	N	X		X												X						
09	AH-5S (0-1')	3/5/2020	1300		X				X			1	N	X		X												X						
10	AH-5S (3-4')	3/5/2020	1310		X				X			1	N	X		X												X						

Relinquished by: Adrian Date	3/12/20	Time:	14:15
Received by:	Date: 3/12/20	Time:	14:15
Relinquished by:	Date: 3/12/20	Time:	17:00
Received by: SOA	Date: 3/12/20	Time:	17:00
Relinquished by:	Date:	Time:	
Received by: W Taylor	Date: 3/13/20	Time:	8:00

LAB USE ONLY

Sample Temperature

REMARKS:

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

RAD SCREEN: <0.5 mR/hr

MP AB .5+.2=.7

ORIGINAL COPY

Containers Received 66

03-132

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

1199114

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	COP MCA 2 C Header Release	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02119
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Adrian
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
		YEAR: 2020																																
11	AH-5E (0-1')	3/5/2020	1100		X				X			1	N	X		X												X						
12	AH-5E (3-4')	3/5/2020	1110		X				X			1	N	X		X												X						
13	AH-5W (0-1')	3/5/2020	1120		X				X			1	N	X		X												X						
14	AH-5W (3-4')	3/5/2020	1130		X				X			1	N	X		X												X						
15	T-6(1-2')	3/5/2020	1150		X				X			1	N	X		X												X						
	T-6 (3-4')	3/5/2020	1200		X				X			1	N	X		X												X						X
	T-6 (7-8')	3/5/2020	1210		X				X			1	N	X		X												X						X
16	T-6(9-10')	3/5/2020	1220		X				X			1	N	X		X												X						
17	AH-6E (0-1')	3/5/2020	1300		X				X			1	N	X		X												X						
18	AH-6E (3-4')	3/5/2020	1310		X				X			1	N	X		X												X						

Relinquished by: Edward Doan	Date: 3/12/20	Time: 14:15	Received by: [signature] Date: 3/12/20 Time: 14:15
Relinquished by: [signature]	Date: 3/12/20	Time: 17:00	Received by: Swift Date: 3/12/20 Time: 17:00
Relinquished by:	Date:	Time:	Received by: W Taylor Date: 3/13/20 Time: 8:00

ORIGINAL COPY

Containers Received 66

LAB USE ONLY

Sample Temperature

REMARKS:

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

1/9 9114

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	COP MCA 2 C Header Release	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02119
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Adrian
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2020)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
19	AH-6W (0-1')	3/5/2020	1100		X			X		1	N	X		X												X						
20	AH-6W (3-4')	3/5/2020	1110		X			X		1	N	X		X												X						
21	AH-7W (0-1')	3/5/2020	1120		X			X		1	N	X		X												X						
22	AH-7W (3-4')	3/5/2020	1130		X			X		1	N	X		X												X						
23	T-7(1-2')	3/5/2020	1150		X			X		1	N	X		X												X						
	T-7 (3-4')	3/5/2020	1200		X			X		1	N	X		X												X						
	T-7 (5-6')	3/5/2020	1210		X			X		1	N	X		X												X						X
	T-7(9-10')	3/5/2020	1220		X			X		1	N	X		X												X						X
24	T-7 (17.5')	3/5/2020	1300		X			X		1	N	X		X												X						X
25	AH-7E (0-1')	3/5/2020	1310		X			X		1	N	X		X												X						

Relinquished by: Adrian Dan	Date: 3/12/20	Time: 14:15	Received by: [signature]
Relinquished by: [signature]	Date: 3/12/20	Time: 17:00	Received by: SCA
Relinquished by:	Date:	Time:	Received by: N Taylor
	Date: 3/12/20	Time: 14:15	
	Date: 3/12/20	Time: 17:0	
	Date: 3/13/20	Time: 8:00	

ORIGINAL COPY

Containers Received 66

LAB USE ONLY

Sample Temperature

REMARKS:

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

1199114

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	COP MCA 2 C Header Release	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02119
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Adrian
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
26	AH-7E (3-4')	3/5/2020	1100		X				X		1	N	X		X												X						
27	AH-8N (0-1')	3/6/2020	1120		X				X		1	N	X		X												X						
28	AH-8N (3-4')	3/6/2020	1130		X				X		1	N	X		X												X						
29	T-8(1-2')	3/6/2020	1150		X				X		1	N	X		X												X						
30	T-8 (3-4')	3/6/2020	1200		X				X		1	N	X		X												X						
31	T-8 (7-8')	3/6/2020	1210		X				X		1	N	X		X												X						
32	T-8(9-10')	3/6/2020	1220		X				X		1	N	X		X												X						
33	AH-8E (0-1')	3/6/2020	1300		X				X		1	N	X		X												X						
34	AH-8E (3-4')	3/6/2020	1310		X				X		1	N	X		X												X						

Relinquished by: Adrian Da	Date: 3/12/20	Time: 14:15	Received by:	Date: 3/12/20	Time: 14:15
Relinquished by:	Date: 3/12/20	Time: 17:00	Received by: SOA	Date: 3/12/20	Time: 17:00
Relinquished by:	Date:	Time:	Received by: W Taylor	Date: 3/13/20	Time: 8:00

ORIGINAL COPY

Containers Received 66

LAB USE ONLY

Sample Temperature

REMARKS:

- [X] Standard
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(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

Analysis Request of Chain of Custody Record

Page : 5 of 7

Tetra Tech, Inc.

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

1199114

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	COP MCA 2 C Header Release	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02119
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Adrian
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE: YEAR: 2020	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
35	AH-8W (0-1')	3/6/2020	1100		X			X		1	N	X		X												X						
36	AH-8W (3-4')	3/6/2020	1110		X			X		1	N	X		X												X						
37	AH-9E (0-1')	3/6/2020	1120		X			X		1	N	X		X												X						
38	AH-9E (3-4')	3/6/2020	1130		X			X		1	N	X		X												X						
39	T-9 (1-2')	3/6/2020	1150		X			X		1	N	X		X												X						
40	T-9 (3-4')	3/6/2020	1200		X			X		1	N	X		X												X						
41	T-9 (7-8')	3/6/2020	1210		X			X		1	N	X		X												X						
42	T-9(9-10')	3/6/2020	1220		X			X		1	N	X		X												X						
43	AH-9W (0-1')	3/6/2020	1300		X			X		1	N	X		X												X						
44	AH-9W (3-4')	3/6/2020	1310		X			X		1	N	X		X												X						

Relinquished by: Adrian Brown	Date: 3/12/20	Time: 14:15	Received by: [signature] Date: 3/12/20 Time: 14:15
Relinquished by: [signature]	Date: 3/12/20	Time: 17:00	Received by: SCA Date: 3/12/20 Time: 17:00
Relinquished by:	Date:	Time:	Received by: W Tucker Date: 3/13/20 Time: 8:00

ORIGINAL COPY

LAB USE ONLY
Sample Temperature

REMARKS:
- [X] Standard
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- [ ] Rush Charges Authorized
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(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

1199114

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	COP MCA 2 C Header Release	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02119
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Adrian
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
45	AH-10E (0-1')	3/9/2020	1100		X				X		1	N	X		X												X						
46	AH-10E (3-4')	3/9/2020	1110		X				X		1	N	X		X												X						
47	AH-10W (0-1')	3/9/2020	1120		X				X		1	N	X		X												X						
48	AH-10W (3-4')	3/9/2020	1130		X				X		1	N	X		X												X						
49	T-10 (1-2')	3/9/2020	1150		X				X		1	N	X		X												X						
	T-10 (5-6')	3/9/2020	1200		X				X		1	N	X		X												X						X
	T-10 (9-10')	3/9/2020	1210		X				X		1	N	X		X												X						X
50	T-10(14-15')	3/9/2020	1220		X				X		1	N	X		X												X						
51	T-9(16'-17')	3/10/2020	1300		X				X		1	N	X		X												X						
52	AH-11W(0-1')	3/10/2020	1050		X				X		1	N	X		X												X						

Relinquished by:	Date: 3/12/20	Time: 14:15	Received by: Date: 3/12/20 Time: 14:15
Relinquished by:	Date: 3/12/20	Time: 17:00	Received by: Date: 3/12/20 Time: 17:00
Relinquished by:	Date:	Time:	Received by: Date: 3/13/20 Time: 8:00

LAB USE ONLY
Sample Temperature

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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Containers Received 66

Analysis Request of Chain of Custody Record

COPTETRA

Page : 7 of 7

Tetra Tech, Inc.

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

1199114

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	COP MCA 2 C Header Release	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02119
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Adrian
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2020)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
53	AH-11W (3-4')	3/10/2020	1100		X				X			1	N	X		X												X						
54	AH-11E (0-1')	3/10/2020	1110		X				X			1	N	X		X												X						
55	AH-11E (3-4')	3/10/2020	1120		X				X			1	N	X		X												X						
56	T-11 (1-2')	3/10/2020	1130		X				X			1	N	X		X												X						
	T-11 (5-6')	3/10/2020	1150		X				X			1	N	X		X												X						X
	T-11 (9-10')	3/10/2020	1200		X				X			1	N	X		X												X						X
57	T-11 (14-15')	3/10/2020	1210		X				X			1	N	X		X												X						

Relinquished by:	Date: 3/12/20	Time: 14:15	Received by: Date: 3/12/20 Time: 14:15
Relinquished by:	Date: 3/12/20	Time: 7:00	Received by: Date: 3/12/20 Time: 17:00
Relinquished by:	Date:	Time:	Received by: W Tucker Date: 3/13/20 Time: 8:00

ORIGINAL COPY

Containers Received 66

LAB USE ONLY

Sample Temperature

REMARKS:

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client: COPTETRA	1199114	
Cooler Received/Opened On: 3 / 13 / 20 Temperature:	.7	
Received By: Willie Taylor 8:00		
Signature: Willie Taylor		

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

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

July 28, 2020

Revised Report

ConocoPhillips - Tetra Tech

Sample Delivery Group:	L1238345
Samples Received:	07/10/2020
Project Number:	212C-MD-02119
Description:	COP MCA 2-C Header Release
Site:	LEA COUNTY, NEW MEXICO
Report To:	Christian Llull
	901 West Wall
	Suite 100
	Midland, TX 79701

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

TABLE OF CONTENTS

AH-1S-2 0-1FT L1238345-01 Solid

Collected by: John Myler | Collected date/time: 07/08/20 12:00 | Received date/time: 07/10/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508708	1	07/14/20 23:25	07/14/20 23:35	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/13/20 23:32	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507601	1	07/10/20 21:04	07/12/20 00:21	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 13:59	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 13:15	KLM	Mt. Juliet, TN

AH-1S-2 2-3FT L1238345-02 Solid

Collected by: John Myler | Collected date/time: 07/08/20 12:30 | Received date/time: 07/10/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508708	1	07/14/20 23:25	07/14/20 23:35	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/13/20 23:50	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507601	1	07/10/20 21:04	07/12/20 00:41	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 14:19	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 12:33	KLM	Mt. Juliet, TN

AH-5S-2 0-1FT L1238345-03 Solid

Collected by: John Myler | Collected date/time: 07/08/20 13:30 | Received date/time: 07/10/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508708	1	07/14/20 23:25	07/14/20 23:35	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 00:09	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507601	1	07/10/20 21:04	07/12/20 01:02	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 14:39	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 11:19	KLM	Mt. Juliet, TN

AH-5S-2 2-3FT L1238345-04 Solid

Collected by: John Myler | Collected date/time: 07/08/20 14:00 | Received date/time: 07/10/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508708	1	07/14/20 23:25	07/14/20 23:35	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 00:27	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507601	1	07/10/20 21:04	07/12/20 01:22	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 14:59	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/17/20 16:09	FM	Mt. Juliet, TN

AH-7W-2 0-1FT L1238345-05 Solid

Collected by: John Myler | Collected date/time: 07/08/20 14:30 | Received date/time: 07/10/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508708	1	07/14/20 23:25	07/14/20 23:35	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 01:04	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507601	1	07/10/20 21:04	07/12/20 01:43	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 15:19	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 13:28	KLM	Mt. Juliet, TN

AH-7W-2 2-3FT L1238345-06 Solid

Collected by: John Myler
Collected date/time: 07/08/20 15:00
Received date/time: 07/10/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508708	1	07/14/20 23:25	07/14/20 23:35	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 01:22	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507601	1	07/10/20 21:04	07/12/20 02:03	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 15:39	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 14:01	KLM	Mt. Juliet, TN

AH-7E-2 0-1FT L1238345-07 Solid

Collected by: John Myler
Collected date/time: 07/08/20 15:30
Received date/time: 07/10/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508708	1	07/14/20 23:25	07/14/20 23:35	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 02:54	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507614	1	07/10/20 21:04	07/12/20 03:45	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 15:59	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/17/20 00:20	KLM	Mt. Juliet, TN

AH-7E-2 2-3FT L1238345-08 Solid

Collected by: John Myler
Collected date/time: 07/08/20 16:00
Received date/time: 07/10/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508708	1	07/14/20 23:25	07/14/20 23:35	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 03:13	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507614	1	07/10/20 21:04	07/12/20 04:07	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 16:18	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 12:19	KLM	Mt. Juliet, TN

AH-11W-2 0-1FT L1238345-09 Solid

Collected by: John Myler
Collected date/time: 07/08/20 16:30
Received date/time: 07/10/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508709	1	07/14/20 23:12	07/14/20 23:22	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 03:31	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507614	1	07/10/20 21:04	07/12/20 04:29	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 16:38	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 23:39	KLM	Mt. Juliet, TN

AH-11W-2 2-3FT L1238345-10 Solid

Collected by: John Myler
Collected date/time: 07/08/20 17:00
Received date/time: 07/10/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508709	1	07/14/20 23:12	07/14/20 23:22	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 03:50	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507614	1	07/10/20 21:04	07/12/20 04:52	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 16:58	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 23:53	KLM	Mt. Juliet, TN

AH-9W-2 0-1FT L1238345-11 Solid

Collected by: John Myler | Collected date/time: 07/08/20 17:30 | Received date/time: 07/10/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508709	1	07/14/20 23:12	07/14/20 23:22	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 04:08	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507614	1	07/10/20 21:04	07/12/20 05:14	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 17:18	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/17/20 00:06	KLM	Mt. Juliet, TN

AH-9N 0-1FT L1238345-13 Solid

Collected by: John Myler | Collected date/time: 07/08/20 18:30 | Received date/time: 07/10/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508709	1	07/14/20 23:12	07/14/20 23:22	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 04:27	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507614	1	07/10/20 21:04	07/12/20 05:36	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 17:38	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 22:31	KLM	Mt. Juliet, TN

AH-9N 2-3FT L1238345-14 Solid

Collected by: John Myler | Collected date/time: 07/08/20 19:00 | Received date/time: 07/10/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508709	1	07/14/20 23:12	07/14/20 23:22	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 04:45	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507614	1	07/10/20 21:04	07/12/20 05:58	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 17:58	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 14:14	KLM	Mt. Juliet, TN

AH-8W-2 0-1FT L1238345-15 Solid

Collected by: John Myler | Collected date/time: 07/08/20 19:30 | Received date/time: 07/10/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508709	1	07/14/20 23:12	07/14/20 23:22	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 05:03	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507614	1	07/10/20 21:04	07/12/20 06:21	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 18:18	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 22:45	KLM	Mt. Juliet, TN

AH-8W-2 2-3FT L1238345-16 Solid

Collected by: John Myler | Collected date/time: 07/08/20 20:00 | Received date/time: 07/10/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508709	1	07/14/20 23:12	07/14/20 23:22	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 05:22	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507614	1	07/10/20 21:04	07/12/20 06:43	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507972	1	07/10/20 21:04	07/14/20 13:17	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 22:58	KLM	Mt. Juliet, TN

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

Chris McCord
Project Manager

Report Revision History

Level II Report - Version 1: 07/20/20 17:24

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.4		1	07/14/2020 23:35	WG1508708

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.85	21.4	1	07/13/2020 23:32	WG1507969

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0232	0.107	1	07/12/2020 00:21	WG1507601
(S) a,a,a-Trifluorotoluene(FID)	*89.2*			*77.0-120*		*07/12/2020 00:21*	WG1507601

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000500	0.00107	1	07/12/2020 13:59	WG1507711
Toluene	U		0.00139	0.00535	1	07/12/2020 13:59	WG1507711
Ethylbenzene	U		0.000789	0.00268	1	07/12/2020 13:59	WG1507711
Total Xylenes	U		0.000942	0.00696	1	07/12/2020 13:59	WG1507711
(S) Toluene-d8	*104*			*75.0-131*		*07/12/2020 13:59*	WG1507711
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*07/12/2020 13:59*	WG1507711
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*07/12/2020 13:59*	WG1507711

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.23	J	1.72	4.28	1	07/16/2020 13:15	WG1507584
C28-C40 Oil Range	14.3		0.293	4.28	1	07/16/2020 13:15	WG1507584
(S) o-Terphenyl	*52.4*			*18.0-148*		*07/16/2020 13:15*	WG1507584

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.4		1	07/14/2020 23:35	WG1508708

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.54	20.7	1	07/13/2020 23:50	WG1507969

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0225	0.104	1	07/12/2020 00:41	WG1507601
(S) a,a,a-Trifluorotoluene(FID)	*88.7*			*77.0-120*		*07/12/2020 00:41*	WG1507601

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000484	0.00104	1	07/12/2020 14:19	WG1507711
Toluene	U		0.00135	0.00519	1	07/12/2020 14:19	WG1507711
Ethylbenzene	U		0.000764	0.00259	1	07/12/2020 14:19	WG1507711
Total Xylenes	U		0.000913	0.00674	1	07/12/2020 14:19	WG1507711
(S) Toluene-d8	*104*			*75.0-131*		*07/12/2020 14:19*	WG1507711
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*07/12/2020 14:19*	WG1507711
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*07/12/2020 14:19*	WG1507711

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.53	J	1.67	4.15	1	07/16/2020 12:33	WG1507584
C28-C40 Oil Range	11.7		0.284	4.15	1	07/16/2020 12:33	WG1507584
(S) o-Terphenyl	*52.0*			*18.0-148*		*07/16/2020 12:33*	WG1507584

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.9		1	07/14/2020 23:35	WG1508708

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	11.8	J	11.1	24.1	1	07/14/2020 00:09	WG1507969

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0282	J	0.0262	0.121	1	07/12/2020 01:02	WG1507601
(S) a,a,a-Trifluorotoluene(FID)	*87.5*			*77.0-120*		*07/12/2020 01:02*	WG1507601

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000661	0.00141	1	07/12/2020 14:39	WG1507711
Toluene	U		0.00184	0.00707	1	07/12/2020 14:39	WG1507711
Ethylbenzene	U		0.00104	0.00354	1	07/12/2020 14:39	WG1507711
Total Xylenes	U		0.00125	0.00920	1	07/12/2020 14:39	WG1507711
(S) Toluene-d8	*104*			*75.0-131*		*07/12/2020 14:39*	WG1507711
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*07/12/2020 14:39*	WG1507711
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*07/12/2020 14:39*	WG1507711

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.94	4.83	1	07/16/2020 11:19	WG1507584
C28-C40 Oil Range	4.44	B J	0.331	4.83	1	07/16/2020 11:19	WG1507584
(S) o-Terphenyl	*46.9*			*18.0-148*		*07/16/2020 11:19*	WG1507584

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.6		1	07/14/2020 23:35	WG1508708

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.83	21.4	1	07/14/2020 00:27	WG1507969

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0232	0.107	1	07/12/2020 01:22	WG1507601
(S) a,a,a-Trifluorotoluene(FID)	*89.1*			*77.0-120*		*07/12/2020 01:22*	WG1507601

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000499	0.00107	1	07/12/2020 14:59	WG1507711
Toluene	U		0.00139	0.00534	1	07/12/2020 14:59	WG1507711
Ethylbenzene	U		0.000788	0.00267	1	07/12/2020 14:59	WG1507711
Total Xylenes	U		0.000940	0.00695	1	07/12/2020 14:59	WG1507711
(S) Toluene-d8	*107*			*75.0-131*		*07/12/2020 14:59*	WG1507711
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*07/12/2020 14:59*	WG1507711
(S) 1,2-Dichloroethane-d4	*98.8*			*70.0-130*		*07/12/2020 14:59*	WG1507711

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.78		1.72	4.27	1	07/17/2020 16:09	WG1507584
C28-C40 Oil Range	13.8		0.293	4.27	1	07/17/2020 16:09	WG1507584
(S) o-Terphenyl	*48.5*			*18.0-148*		*07/17/2020 16:09*	WG1507584

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.6		1	07/14/2020 23:35	WG1508708

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.23	20.1	1	07/14/2020 01:04	WG1507969

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0251	J	0.0218	0.100	1	07/12/2020 01:43	WG1507601
(S) a,a,a-Trifluorotoluene(FID)	*89.2*			*77.0-120*		*07/12/2020 01:43*	WG1507601

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000469	0.00100	1	07/12/2020 15:19	WG1507711
Toluene	U		0.00130	0.00502	1	07/12/2020 15:19	WG1507711
Ethylbenzene	U		0.000740	0.00251	1	07/12/2020 15:19	WG1507711
Total Xylenes	U		0.000883	0.00652	1	07/12/2020 15:19	WG1507711
(S) Toluene-d8	*105*			*75.0-131*		*07/12/2020 15:19*	WG1507711
(S) 4-Bromofluorobenzene	*98.1*			*67.0-138*		*07/12/2020 15:19*	WG1507711
(S) 1,2-Dichloroethane-d4	*97.3*			*70.0-130*		*07/12/2020 15:19*	WG1507711

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.57	J	1.62	4.01	1	07/16/2020 13:28	WG1507584
C28-C40 Oil Range	23.9		0.275	4.01	1	07/16/2020 13:28	WG1507584
(S) o-Terphenyl	*61.0*			*18.0-148*		*07/16/2020 13:28*	WG1507584

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.8		1	07/14/2020 23:35	WG1508708

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		10.7	23.3	1	07/14/2020 01:22	WG1507969

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0304	J	0.0253	0.117	1	07/12/2020 02:03	WG1507601
(S) a,a,a-Trifluorotoluene(FID)	*86.2*			*77.0-120*		*07/12/2020 02:03*	WG1507601

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000623	0.00133	1	07/12/2020 15:39	WG1507711
Toluene	U		0.00173	0.00667	1	07/12/2020 15:39	WG1507711
Ethylbenzene	U		0.000982	0.00333	1	07/12/2020 15:39	WG1507711
Total Xylenes	U		0.00117	0.00866	1	07/12/2020 15:39	WG1507711
(S) Toluene-d8	*105*			*75.0-131*		*07/12/2020 15:39*	WG1507711
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*07/12/2020 15:39*	WG1507711
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*07/12/2020 15:39*	WG1507711

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.80	J	1.88	4.66	1	07/16/2020 14:01	WG1507584
C28-C40 Oil Range	14.7		0.320	4.66	1	07/16/2020 14:01	WG1507584
(S) o-Terphenyl	*54.5*			*18.0-148*		*07/16/2020 14:01*	WG1507584

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.3		1	07/14/2020 23:35	WG1508708

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		11.3	24.6	1	07/14/2020 02:54	WG1507969

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0267	0.123	1	07/12/2020 03:45	WG1507614
(S) a,a,a-Trifluorotoluene(FID)	*97.9*			*77.0-120*		*07/12/2020 03:45*	WG1507614

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000682	0.00146	1	07/12/2020 15:59	WG1507711
Toluene	U		0.00190	0.00730	1	07/12/2020 15:59	WG1507711
Ethylbenzene	U		0.00108	0.00365	1	07/12/2020 15:59	WG1507711
Total Xylenes	U		0.00129	0.00949	1	07/12/2020 15:59	WG1507711
(S) Toluene-d8	*103*			*75.0-131*		*07/12/2020 15:59*	WG1507711
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*07/12/2020 15:59*	WG1507711
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*07/12/2020 15:59*	WG1507711

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	9.48		1.98	4.92	1	07/17/2020 00:20	WG1507584
C28-C40 Oil Range	49.5		0.337	4.92	1	07/17/2020 00:20	WG1507584
(S) o-Terphenyl	*55.2*			*18.0-148*		*07/17/2020 00:20*	WG1507584

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.2		1	07/14/2020 23:35	WG1508708

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	U		9.27	20.2	1	07/14/2020 03:13	WG1507969

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	07/12/2020 04:07	WG1507614
(S) a,a,a-Trifluorotoluene(FID)	*97.8*			*77.0-120*		*07/12/2020 04:07*	WG1507614

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000471	0.00101	1	07/12/2020 16:18	WG1507711
Toluene	U		0.00131	0.00504	1	07/12/2020 16:18	WG1507711
Ethylbenzene	U		0.000743	0.00252	1	07/12/2020 16:18	WG1507711
Total Xylenes	U		0.000887	0.00655	1	07/12/2020 16:18	WG1507711
(S) Toluene-d8	*105*			*75.0-131*		*07/12/2020 16:18*	WG1507711
(S) 4-Bromofluorobenzene	*98.6*			*67.0-138*		*07/12/2020 16:18*	WG1507711
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*07/12/2020 16:18*	WG1507711

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1.86	J	1.62	4.03	1	07/16/2020 12:19	WG1507584
C28-C40 Oil Range	9.44		0.276	4.03	1	07/16/2020 12:19	WG1507584
(S) o-Terphenyl	*46.7*			*18.0-148*		*07/16/2020 12:19*	WG1507584

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.7		1	07/14/2020 23:22	WG1508709

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.23	20.1	1	07/14/2020 03:31	WG1507969

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0218	0.100	1	07/12/2020 04:29	WG1507614
(S) a,a,a-Trifluorotoluene(FID)	*99.0*			*77.0-120*		*07/12/2020 04:29*	WG1507614

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000468	0.00100	1	07/12/2020 16:38	WG1507711
Toluene	U		0.00130	0.00501	1	07/12/2020 16:38	WG1507711
Ethylbenzene	U		0.000739	0.00251	1	07/12/2020 16:38	WG1507711
Total Xylenes	U		0.000883	0.00652	1	07/12/2020 16:38	WG1507711
(S) Toluene-d8	*105*			*75.0-131*		*07/12/2020 16:38*	WG1507711
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*07/12/2020 16:38*	WG1507711
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*07/12/2020 16:38*	WG1507711

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	6.11		1.61	4.01	1	07/16/2020 23:39	WG1507584
C28-C40 Oil Range	33.6		0.275	4.01	1	07/16/2020 23:39	WG1507584
(S) o-Terphenyl	*66.8*			*18.0-148*		*07/16/2020 23:39*	WG1507584

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.5		1	07/14/2020 23:22	WG1508709

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		10.5	22.8	1	07/14/2020 03:50	WG1507969

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0248	0.114	1	07/12/2020 04:52	WG1507614
(S) a,a,a-Trifluorotoluene(FID)	*98.4*			*77.0-120*		*07/12/2020 04:52*	WG1507614

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000601	0.00129	1	07/12/2020 16:58	WG1507711
Toluene	U		0.00167	0.00643	1	07/12/2020 16:58	WG1507711
Ethylbenzene	U		0.000948	0.00322	1	07/12/2020 16:58	WG1507711
Total Xylenes	U		0.00113	0.00836	1	07/12/2020 16:58	WG1507711
(S) Toluene-d8	*106*			*75.0-131*		*07/12/2020 16:58*	WG1507711
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*07/12/2020 16:58*	WG1507711
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*07/12/2020 16:58*	WG1507711

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	5.65		1.84	4.57	1	07/16/2020 23:53	WG1507584
C28-C40 Oil Range	23.5		0.313	4.57	1	07/16/2020 23:53	WG1507584
(S) o-Terphenyl	*47.7*			*18.0-148*		*07/16/2020 23:53*	WG1507584

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.6		1	07/14/2020 23:22	WG1508709

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	49.4		9.23	20.1	1	07/14/2020 04:08	WG1507969

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0218	0.100	1	07/12/2020 05:14	WG1507614
(S) a,a,a-Trifluorotoluene(FID)	*99.0*			*77.0-120*		*07/12/2020 05:14*	WG1507614

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000469	0.00100	1	07/12/2020 17:18	WG1507711
Toluene	U		0.00130	0.00502	1	07/12/2020 17:18	WG1507711
Ethylbenzene	U		0.000740	0.00251	1	07/12/2020 17:18	WG1507711
Total Xylenes	U		0.000883	0.00652	1	07/12/2020 17:18	WG1507711
(S) Toluene-d8	*106*			*75.0-131*		*07/12/2020 17:18*	WG1507711
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*07/12/2020 17:18*	WG1507711
(S) 1,2-Dichloroethane-d4	*97.7*			*70.0-130*		*07/12/2020 17:18*	WG1507711

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	21.6		1.62	4.01	1	07/17/2020 00:06	WG1507584
C28-C40 Oil Range	97.3		0.275	4.01	1	07/17/2020 00:06	WG1507584
(S) o-Terphenyl	*59.0*			*18.0-148*		*07/17/2020 00:06*	WG1507584

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.9		1	07/14/2020 23:22	WG1508709

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.90	21.5	1	07/14/2020 04:27	WG1507969

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0234	0.108	1	07/12/2020 05:36	WG1507614
(S) a,a,a-Trifluorotoluene(FID)	*98.6*			*77.0-120*		*07/12/2020 05:36*	WG1507614

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000503	0.00108	1	07/12/2020 17:38	WG1507711
Toluene	U		0.00140	0.00538	1	07/12/2020 17:38	WG1507711
Ethylbenzene	U		0.000793	0.00269	1	07/12/2020 17:38	WG1507711
Total Xylenes	U		0.000947	0.00700	1	07/12/2020 17:38	WG1507711
(S) Toluene-d8	*106*			*75.0-131*		*07/12/2020 17:38*	WG1507711
(S) 4-Bromofluorobenzene	*99.1*			*67.0-138*		*07/12/2020 17:38*	WG1507711
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*07/12/2020 17:38*	WG1507711

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	10.1		1.73	4.31	1	07/16/2020 22:31	WG1507584
C28-C40 Oil Range	36.3		0.295	4.31	1	07/16/2020 22:31	WG1507584
(S) o-Terphenyl	*61.7*			*18.0-148*		*07/16/2020 22:31*	WG1507584

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.1		1	07/14/2020 23:22	WG1508709

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	13.1	J	9.29	20.2	1	07/14/2020 04:45	WG1507969

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	07/12/2020 05:58	WG1507614
(S) a,a,a-Trifluorotoluene(FID)	*98.5*			*77.0-120*		*07/12/2020 05:58*	WG1507614

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000471	0.00101	1	07/12/2020 17:58	WG1507711
Toluene	U		0.00131	0.00505	1	07/12/2020 17:58	WG1507711
Ethylbenzene	U		0.000744	0.00252	1	07/12/2020 17:58	WG1507711
Total Xylenes	U		0.000888	0.00656	1	07/12/2020 17:58	WG1507711
(S) Toluene-d8	*107*			*75.0-131*		*07/12/2020 17:58*	WG1507711
(S) 4-Bromofluorobenzene	*98.9*			*67.0-138*		*07/12/2020 17:58*	WG1507711
(S) 1,2-Dichloroethane-d4	*97.5*			*70.0-130*		*07/12/2020 17:58*	WG1507711

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.35		1.63	4.04	1	07/16/2020 14:14	WG1507584
C28-C40 Oil Range	28.2		0.277	4.04	1	07/16/2020 14:14	WG1507584
(S) o-Terphenyl	*51.8*			*18.0-148*		*07/16/2020 14:14*	WG1507584

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.3		1	07/14/2020 23:22	WG1508709

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	16.6	J	9.27	20.1	1	07/14/2020 05:03	WG1507969

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	07/12/2020 06:21	WG1507614
(S) a,a,a-Trifluorotoluene(FID)	*98.2*			*77.0-120*		*07/12/2020 06:21*	WG1507614

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000470	0.00101	1	07/12/2020 18:18	WG1507711
Toluene	U		0.00131	0.00504	1	07/12/2020 18:18	WG1507711
Ethylbenzene	U		0.000742	0.00252	1	07/12/2020 18:18	WG1507711
Total Xylenes	U		0.000886	0.00655	1	07/12/2020 18:18	WG1507711
(S) Toluene-d8	*104*			*75.0-131*		*07/12/2020 18:18*	WG1507711
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*07/12/2020 18:18*	WG1507711
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*07/12/2020 18:18*	WG1507711

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	7.36		1.62	4.03	1	07/16/2020 22:45	WG1507584
C28-C40 Oil Range	40.1		0.276	4.03	1	07/16/2020 22:45	WG1507584
(S) o-Terphenyl	*48.2*			*18.0-148*		*07/16/2020 22:45*	WG1507584

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.7		1	07/14/2020 23:22	WG1508709

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	53.9		9.42	20.5	1	07/14/2020 05:22	WG1507969

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0222	0.102	1	07/12/2020 06:43	WG1507614
(S) a,a,a-Trifluorotoluene(FID)	*99.2*			*77.0-120*		*07/12/2020 06:43*	WG1507614

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	0.000717	J	0.000478	0.00102	1	07/14/2020 13:17	WG1507972
Toluene	0.00141	J	0.00133	0.00512	1	07/14/2020 13:17	WG1507972
Ethylbenzene	U		0.000755	0.00256	1	07/14/2020 13:17	WG1507972
Total Xylenes	0.00102	J	0.000901	0.00665	1	07/14/2020 13:17	WG1507972
(S) Toluene-d8	*103*			*75.0-131*		*07/14/2020 13:17*	WG1507972
(S) 4-Bromofluorobenzene	*94.9*			*67.0-138*		*07/14/2020 13:17*	WG1507972
(S) 1,2-Dichloroethane-d4	*94.2*			*70.0-130*		*07/14/2020 13:17*	WG1507972

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	7.58		1.65	4.10	1	07/16/2020 22:58	WG1507584
C28-C40 Oil Range	37.6		0.281	4.10	1	07/16/2020 22:58	WG1507584
(S) o-Terphenyl	*60.3*			*18.0-148*		*07/16/2020 22:58*	WG1507584

Method Blank (MB)

(MB) R3549748-1 07/14/20 23:35

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

L1238345-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1238345-01 07/14/20 23:35 • (DUP) R3549748-3 07/14/20 23:35

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	93.4	93.4	1	0.00139		10

Laboratory Control Sample (LCS)

(LCS) R3549748-2 07/14/20 23:35

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

Method Blank (MB)

(MB) R3549745-1 07/14/20 23:22

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

L1238345-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1238345-13 07/14/20 23:22 • (DUP) R3549745-3 07/14/20 23:22

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	92.9	93.2	1	0.341		10

Laboratory Control Sample (LCS)

(LCS) R3549745-2 07/14/20 23:22

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

Method Blank (MB)

(MB) R3549168-1 07/13/20 22:36

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1238345-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1238345-04 07/14/20 00:27 • (DUP) R3549168-3 07/14/20 00:45

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		20

L1238345-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1238345-16 07/14/20 05:22 • (DUP) R3549168-6 07/14/20 06:17

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	53.9	54.0	1	0.178		20

Laboratory Control Sample (LCS)

(LCS) R3549168-2 07/13/20 22:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	208	104	90.0-110	

L1238345-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1238345-06 07/14/20 01:22 • (MS) R3549168-4 07/14/20 01:41 • (MSD) R3549168-5 07/14/20 02:36

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	583	U	591	596	101	102	1	80.0-120			0.871	20

Method Blank (MB)

(MB) R3550217-2 07/11/20 23:40

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*92.6*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3550217-1 07/11/20 22:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.48	99.6	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*108*	*77.0-120*	

Method Blank (MB)

(MB) R3550799-3 07/12/20 03:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.8*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3550799-2 07/12/20 02:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.71	85.6	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*101*	*77.0-120*	

Method Blank (MB)

(MB) R3549987-2 07/12/20 12:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*103*			*75.0-131*
(S) 4-Bromofluorobenzene	*101*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3549987-1 07/12/20 11:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.113	90.4	70.0-123	
Ethylbenzene	0.125	0.134	107	74.0-126	
Toluene	0.125	0.106	84.8	75.0-121	
Xylenes, Total	0.375	0.347	92.5	72.0-127	
(S) Toluene-d8			*103*	*75.0-131*	
(S) 4-Bromofluorobenzene			*102*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*105*	*70.0-130*	

Method Blank (MB)

(MB) R3550795-2 07/14/20 10:15

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*102*			*75.0-131*
(S) 4-Bromofluorobenzene	*97.2*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*91.0*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3550795-1 07/14/20 09:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.122	97.6	70.0-123	
Ethylbenzene	0.125	0.118	94.4	74.0-126	
Toluene	0.125	0.116	92.8	75.0-121	
Xylenes, Total	0.375	0.382	102	72.0-127	
(S) Toluene-d8			*94.7*	*75.0-131*	
(S) 4-Bromofluorobenzene			*103*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*101*	*70.0-130*	

L1238436-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1238436-03 07/14/20 16:46 • (MS) R3550795-3 07/14/20 19:36 • (MSD) R3550795-4 07/14/20 19:55

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.00130	0.187	0.183	96.9	94.5	1	10.0-149			2.49	37
Ethylbenzene	0.125	U	0.181	0.175	94.4	91.2	1	10.0-160			3.45	38
Toluene	0.125	U	0.193	0.189	101	98.4	1	10.0-156			2.41	38
Xylenes, Total	0.375	U	0.560	0.430	97.3	74.7	1	10.0-160			26.4	38
(S) Toluene-d8					*99.2*	*99.3*		*75.0-131*				
(S) 4-Bromofluorobenzene					*93.9*	*93.4*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*101*	*102*		*70.0-130*				

Method Blank (MB)

(MB) R3550539-1 07/16/20 10:51

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	0.442	J	0.274	4.00
(S) o-Terphenyl	*49.4*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3550539-2 07/16/20 11:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	33.0	66.0	50.0-150	
(S) o-Terphenyl			*82.3*	*18.0-148*	

L1238345-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1238345-03 07/16/20 11:19 • (MS) R3550539-3 07/16/20 11:34 • (MSD) R3550539-4 07/16/20 11:52

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	59.0	U	32.9	39.2	55.8	66.3	1	50.0-150			17.4	20
(S) o-Terphenyl					*59.2*	*116*		*18.0-148*				

Guide to Reading and Understanding Your Laboratory Report

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

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

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

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

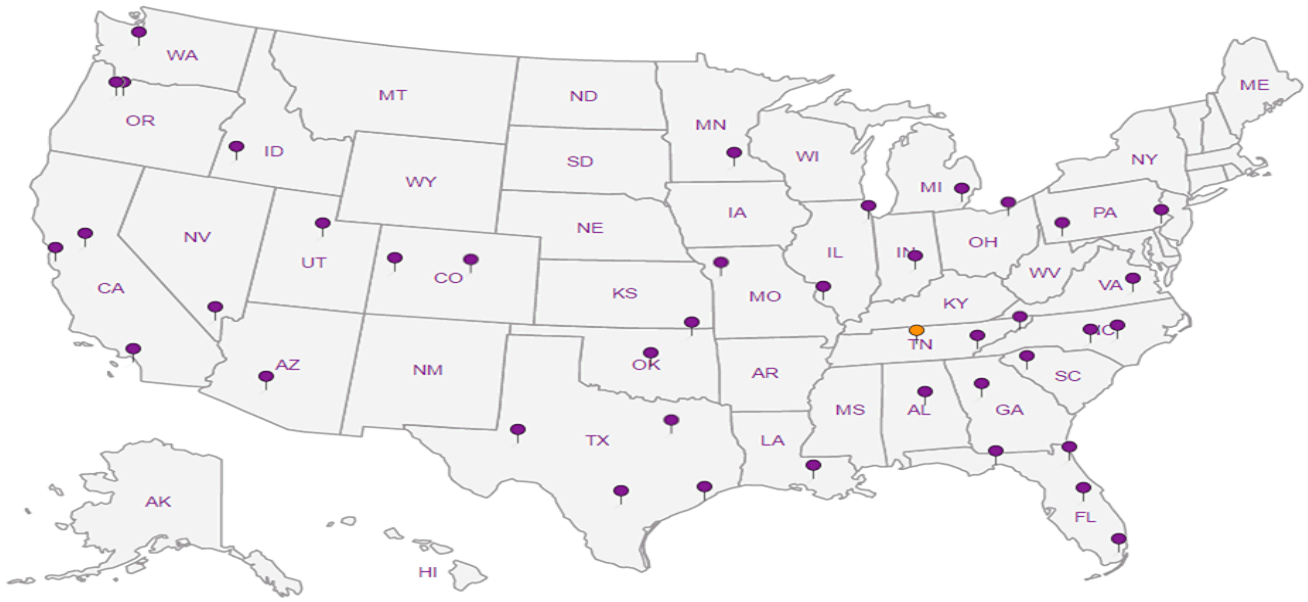
Third Party Federal Accreditations

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

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

Our Locations

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



ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
ConocoPhillips - Tetra Tech	212C-MD-02119	L1238345	07/28/20 13:22	31 of 37

ConocoPhillips - Tetra Tech

901 West Wall
Suite 100
Midland, TX 79701

Billing Information:
Accounts Payable
901 West Wall
Suite 100
Midland, TX 79701

Pres Chk

Report to: Christian Llull

Email To: christian.llull@tetratech.com

Project Description: COP MCA 2-C Header Release

City/State Collected: Hobbs, NM

Please Circle: PT MT (CT) ET

Phone: 512-338-1667

Client Project # 212C-MD-02119

Lab Project # COPTETRA-212CMD02119

Collected by (print): JOHN MAYLER

Site/Facility ID # LEA COUNTY, NEW MEXICO

P.O. #

Collected by (signature): John Mayler

Immediately Packed on Ice N ___ Y X

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

Quote #

Date Results Needed: Standard, No Rush

Chain of Custody Page 1 of 2

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

D135

Table # 1238345

Acctnum: COPTETRA

Template: T170394

Prelogin: P784175

PM: 526 - Chris McCord

PB: 7/1/20 MG

Shipped Via: FedEX Ground

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE-300 4ozClr-NoPres	GRO,V8260BTEX 4ozClr-NoPres	TPH-DRO/ORO 4ozClr-NoPres	Remarks	Sample # (lab only)
AH-1S	Grab	SS	0'-1'	7/8/20	12:00	1	X	X	X		-01
AH-1S		SS	2'-3'		12:30						-02
AH-5S		SS	0'-1'		13:30						-03
AH-5S		SS	2'-3'		14:00						-04
AH-7W		SS	0'-1'		14:30						-05
AH-7W		SS	2'-3'		15:00						-06
AH-7E		SS	0'-1'		15:30						-07
AH-7E		SS	2'-3'		16:00						-08
AH-11W		SS	0'-1'		16:30						-09
AH-11W		SS	2'-3'		17:00						-10

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

Remarks: RED COOLER

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking # 4510 1659 5120

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	7/9/20	10:30	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No HCL / MeoH TBR

Temp: 2.7 °C Bottles Received: 16

Date: 7-10-20 Time: 0830

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

ConocoPhillips - Tetra Tech

901 West Wall
Suite 100
Midland, TX 79701

Billing Information:
Accounts Payable
901 West Wall
Suite 100
Midland, TX 79701

Pres Chk

Report to: Christian Llull

Email To: christian.llull@tetratech.com

Project Description: COP MCA 2-C Header Release

City/State Collected: Hobbs, NM

Please Circle: PT MT (CT) ET

Phone: 512-338-1667

Client Project # 212C-MD-02119

Lab Project # COPTETRA-212CMD02119

Collected by (print): JOHN MYLER

Site/Facility ID # LEA COUNTY, NEW MEXICO

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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

Quote #

Date Results Needed: STANDARD, No Rush

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

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National Center for Testing & Innovation

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

SDG # L1238345

Table #

Acctnum: COPTETRA

Template: T170394

Prelogin: P784175

PM: 526 - Chris McCord

PB: 7/20

Shipped Via: FedEx Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE-300 4ozClr-NoPres	GRO,V8260BTEX 4ozClr-NoPres	TPH-DRO/ORO 4ozClr-NoPres	Remarks	Sample # (lab only)
AH-9W	Grab	SS	0'-1'	7/18/20	17:30	1	X	X	X		-11
AH-9W		SS	2'-3'		18:00						-12
AH-9N		SS	0'-1'		18:30						-13
AH-9N		SS	2'-3'		19:00						-14
AH-8W		SS	0'-1		19:30						-15
AH-8W		SS	2'-3'		20:00						-16
Trip-Blank-1		SS	—	—	—						-17
		SS									
		SS									
		SS									

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

Remarks: RED-COOLER

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	7/19/20	10:30		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.7+0.2=2.7 °C Bottles Received: VC
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 7-18-20 Time: 0850

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Troy Dunlap

Pace Analytical®
National Center for Testing & Innovation

Login #: L1238345	Client: COPTETRA	Date: 7/10/20	Evaluated by: Troy Dunlap

Non-Conformance (check applicable items)

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

Login Comments: Sample AH-9W 2-3FT received empty.

Client informed by:		Call		Email		Voice Mail		Date: 7/13/20	14:01
TSR Initials: CM	Client Contact:								

Login Instructions:

Client notified.

ConocoPhillips - Tetra Tech

901 West Wall
Suite 100
Midland, TX 79701

Billing Information:
Accounts Payable
901 West Wall
Suite 100
Midland, TX 79701

Pres Chk

Report to: Christian Llull

Email To: christian.llull@tetratech.com

Project Description: COP MCA 2-C Header Release

City/State Collected: Hobbs, NM

Please Circle: PT MT (CT) ET

Phone: 512-338-1667

Client Project # 212C-MD-02119

Lab Project # COPTETRA-212CMD02119

Collected by (print): JOHN MAYLER

Site/Facility ID # LEA COUNTY, NEW MEXICO

P.O. #

Collected by (signature):

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

Quote #

Date Results Needed: Standard, No Rush

Immediately Packed on Ice N ___ Y X

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE-300 4ozClr-NoPres	GRO,V8260BTEX 4ozClr-NoPres	TPH-DRO/ORO 4ozClr-NoPres	Remarks	Sample # (lab only)
AH-1S-2	Grab	SS	0'-1'	7/8/20	12:00	1	X	X	X		-01
AH-1S-2		SS	2'-3'		12:30						-02
AH-5S-2		SS	0'-1'		13:30						-03
AH-5S-2		SS	2'-3'		14:00						-04
AH-7W-2		SS	0'-1'		14:30						-05
AH-7W-2		SS	2'-3'		15:00						-06
AH-7E-2		SS	0'-1'		15:30						-07
AH-7E-2		SS	2'-3'		16:00						-08
AH-11W-2		SS	0'-1'		16:30						-09
AH-11W-2		SS	2'-3'		17:00						-10

Chain of Custody Page 1 of 2

Pace Analytical® National Center for Testing & Innovation

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

D135

Table # 1238345

Acctnum: COPTETRA

Template: T170394

Prelogin: P784175

PM: 526 - Chris McCord

PB: 7/1/20 MG

Shipped Via: FedEx Ground

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

Remarks: RED COOLER

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking # 451016595120

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
	7/9/20	10:30	Relinquished		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.7 °C Bottles Received: 16	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 7/10/20 Time: 0830	Hold: Condition: NCF / OK

ConocoPhillips - Tetra Tech

901 West Wall
Suite 100
Midland, TX 79701

Billing Information:
Accounts Payable
901 West Wall
Suite 100
Midland, TX 79701

Pres Chk

Report to: Christian Llull

Email To: christian.llull@tetratech.com

Project Description: COP MCA 2-C Header Release

City/State Collected: Hobbs, NM

Please Circle: PT MT (CT) ET

Phone: 512-338-1667

Client Project # 212C-MD-02119

Lab Project # COPTETRA-212CMD02119

Collected by (print): JOHN MYLER

Site/Facility ID # LEA COUNTY, NEW MEXICO

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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

Quote #

Date Results Needed: STANDARD, No Rush

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE-300 4ozClr-NoPres	GRO,V8260BTEX 4ozClr-NoPres	TPH-DRO/ORO 4ozClr-NoPres	Remarks	Sample # (lab only)
AH-9W-2	Grab	SS	0'-1'	7/18/20	17:30	1	X	X	X		-11
AH-9W-2		SS	2'-3'		18:00						-12
AH-9N		SS	0'-1'		18:30						-13
AH-9N		SS	2'-3'		19:00						-14
AH-8W-2		SS	0'-1		19:30						-15
AH-8W-2		SS	2'-3'		20:00						-16
Trip-Blank-1		SS	—	—	—						-17
		SS									
		SS									
		SS									

Chain of Custody Page 2 of 2

Pace Analytical®
National Center for Testing & Innovation

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

SDG # L1238345

Table #

Acctnum: COPTETRA

Template: T170394

Prelogin: P784175

PM: 526 - Chris McCord

PB: 7/20

Shipped Via: FedEX Ground

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

Remarks: RED-COOLER

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	7/19/20	10:30		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.7+0.2=2.7 °C Bottles Received: VC
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 7-18-20 Time: 0850

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Chris McCord

From: Dickerson, Ryan <Ryan.Dickerson@tetratech.com>
Sent: Tuesday, July 21, 2020 1:37 PM
To: Chris McCord
Cc: Llull, Christian
Subject: L1238345 COC Revision
Attachments: COC edits_L1238345.pdf

Chris,
Can you revise the L1238345 Report to match the attached revised COC? Add "-2" to all samples except AH-9N. We have samples from the site with those sample IDs and need to distinguish the latest samples.

Thanks,

Ryan Dickerson | Senior Staff Geologist
Direct **+1 (512) 338-2889** | Main **+1 (512) 338-1667** | Cell **+1 (512) 217-7254** | ryan.dickerson@tetratech.com

Tetra Tech | *Leading with Science*® | OGA
8911 N. Capital of TX Hwy. | Bldg. 2, Ste 2310 | Austin, TX 78759 | tetratech.com

APPENDIX D
Boring Logs

212C-MD-02119	TETRA TECH	**LOG OF TEST PIT T-5**	Page 1 of 1

Project Name: MCA 2-C Header Release Test Pits

Test Pit Location: GPS: 32.802289°, -103.769090° | Surface Elevation: 3951 ft

Test Pit Number: T-5 | Hand Auger Diameter (in.): 2 | Date Started: 3/5/2020 | Date Finished: 3/5/2020

WATER LEVEL OBSERVATIONS

While Exc. ▽ DRY ft Upon Completion of Exc. ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
			200	0								**-CL-** SANDY CLAY; Reddish brown, medium stiff to stiff, with no odor, with no staining.		T-5 (1'-2')
			539	0.1										T-5 (3'-4')
5													4.5	
			2500	0								**-ML-** SILT; Pink white, dense, caliche, with no odor, with no staining.		T-5 (5'-6')
													6.5	
			250	0								**-ML-** SILT; Pink, dense, caliche, with no odor, with no staining.		T-5 (7'-8')
													8	

Bottom of borehole at 8.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Test Pit, Core Barrel

Notes:
Analytical samples are shown in the "Remarks" column.
Surface elevation is an estimated value.
Soil samples were collected via hand auger.

Logger: Adrian Garrcia | Exc. Equipment: Mini-Excavator | Contractor: McNabb Services, Inc.

212C-MD-02119	TETRA TECH	**LOG OF TEST PIT T-6**	Page 1 of 1

Project Name: MCA 2-C Header Release Test Pits

Test Pit Location: GPS: 32.802770°, -103.769040° | Surface Elevation: 3954 ft

Test Pit Number: T-6 | Hand Auger Diameter (in.): 2 | Date Started: 3/5/2020 | Date Finished: 3/5/2020

WATER LEVEL OBSERVATIONS

While Exc. ▽ DRY ft Upon Completion of Exc. ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
				2.3								**-SM-** SILTY SAND; Red, loose, fine grained, with no odor, with no staining.		T-5 (1'-2')
													2.5	
			1250	0.6								**-CL-** SANDY CLAY; Reddish brown, medium stiff to stiff, with no odor, with no staining.		T-5 (3'-4')
5														
													5.5	
												-ML- SILT; Pink, dense, caliche, with no odor, with no staining.		
			976	0.1										T-5 (7'-8')
													8.5	
												-ML- SILT; White, dense, caliche, with no odor, with no staining.		
10			823										10	T-5 (9'-10')

Bottom of borehole at 10.0 feet.

Sampler Types: Split Spoon, Shelby, Bulk Sample, Grab Sample, Acetate Liner, Vane Shear, California

Operation Types: Mud Rotary, Continuous Flight Auger, Test Pit, Hand Auger, Air Rotary, Direct Push, Core Barrel

Notes:
Analytical samples are shown in the "Remarks" column.
Surface elevation is an estimated value.
Soil samples were collected via hand auger.

Logger: Adrian Garrcia | Exc. Equipment: Mini-Excavator | Contractor: McNabb Services, Inc.

212C-MD-02119 | TETRA TECH

LOG OF TEST PIT T-7

Page 1 of 1

Project Name: MCA 2-C Header Release Test Pits

Test Pit Location: GPS: 32.803154°, -103.769275° | Surface Elevation: 3955 ft

Test Pit Number: T-7 | Hand Auger Diameter (in.): 2 | Date Started: 3/5/2020 | Date Finished: 3/5/2020

WATER LEVEL OBSERVATIONS

While Exc. ▽ DRY ft Upon Completion of Exc. ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
				2.9								**-SM-** SILTY SAND; Red, loose, fine grained, with light odor, with no staining.		T-7 (1'-2')
			1500	0.2									2.5	
												-CL- SANDY CLAY; Reddish brown, medium stiff to stiff, with no odor, with no staining.		T-7 (3'-4')
5													4.5	
				0								**-ML-** SILT; Pink, dense, caliche, with no odor, with no staining.		T-7 (5'-6')
													6.5	
			1300									**-ML-** SILT; Pink white, dense, caliche, with no odor, with no staining.		T-7 (7'-8')
10			1320										10	T-7 (9'-10')

Bottom of borehole at 10.0 feet.

Sampler Types: Split Spoon, Shelby, Bulk Sample, Grab Sample, Acetate Liner, Vane Shear, California

Operation Types: Mud Rotary, Continuous Flight Auger, Test Pit, Hand Auger, Air Rotary, Direct Push, Core Barrel

Notes:

Analytical samples are shown in the "Remarks" column.
Surface elevation is an estimated value.
Soil samples were collected via hand auger.

Logger: Adrian Garrcia | Exc. Equipment: Mini-Excavator | Contractor: McNabb Services, Inc.

212C-MD-02119	TETRA TECH	LOG OF TEST PIT T-8	Page 1 of 1

Project Name: MCA 2-C Header Release Test Pits

Test Pit Location: GPS: 32.803671°, -103.769440° | Surface Elevation: 3959 ft

Test Pit Number: T-8 | Hand Auger Diameter (in.): 2 | Date Started: 3/6/2020 | Date Finished: 3/6/2020

WATER LEVEL OBSERVATIONS

While Exc. ▽ DRY ft Upon Completion of Exc. ▽ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
			1900	0.1								**-SM-** SILTY SAND; Red, loose, fine grained, with no odor, with no staining.		T-8 (1'-2')
				0.1										T-8 (3'-4')
5													4.5	
												-ML- SILT; Pink, dense, caliche, with no odor, with no staining.		T-8 (5'-6')
			1300											T-8 (7'-8')
10			1250	0									10	T-8 (9'-10')

Bottom of borehole at 10.0 feet.

Sampler Types: Split Spoon, Shelby, Bulk Sample, Grab Sample, Acetate Liner, Vane Shear, California

Operation Types: Mud Rotary, Continuous Flight Auger, Test Pit, Hand Auger, Air Rotary, Direct Push, Core Barrel

Notes:
Analytical samples are shown in the "Remarks" column.
Surface elevation is an estimated value.
Soil samples were collected via hand auger.

Logger: Adrian Garrcia | Exc. Equipment: Mini-Excavator | Contractor: McNabb Services, Inc.

212C-MD-02119	TETRA TECH	LOG OF BORING AH-5E	Page 1 of 1

Project Name: MCA 2-C Header Release Boring Logs

Borehole Location: GPS: 32.802310°, -103.768915° | Surface Elevation: 3951 ft

Borehole Number: AH-5E | Borehole Diameter (in.): 2 | Date Started: 3/5/2020 | Date Finished: 3/5/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
			50	0								**-SM-** SILTY SAND; Red, loose, fine grained, with no odor, with no staining.	2	AH-5E (0'-1')
			34	0								**-CL-** SANDY CLAY; Reddish brown, medium stiff to stiff, with no odor, with no staining.	4	AH-5E (0'-1')

Bottom of borehole at 4.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:
Analytical samples are shown in the "Remarks" column.
Surface elevation is an estimated value.

Logger: Adrian Garrcia | Drilling Equipment: Hand Auger | Driller: Tetra Tech

212C-MD-02119 | TETRA TECH | **LOG OF BORING AH-5S** | Page 1 of 1

Project Name: MCA 2-C Header Release Boring Logs

Borehole Location: GPS: 32.802177°, -103.769087° | Surface Elevation: 3950 ft

Borehole Number: AH-5S | Borehole Diameter (in.): 2 | Date Started: 3/5/2020 | Date Finished: 3/5/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
			220	0								**-SM-** SILTY SAND; Red, loose, fine grained, with no odor, with no staining.		AH-5S (0'-1')
													2	
												-CL- SANDY CLAY; Reddish brown, medium stiff to stiff, with no odor, with no staining.		
			270										4	AH-5S (0'-1')

Bottom of borehole at 4.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:

Analytical samples are shown in the "Remarks" column.
Surface elevation is an estimated value.

Logger: Adrian Garrcia | Drilling Equipment: Hand Auger | Driller: Tetra Tech

212C-MD-02119 | TETRA TECH | **LOG OF BORING AH-5W** | Page 1 of 1

Project Name: MCA 2-C Header Release Boring Logs

Borehole Location: | Surface Elevation: ft

Borehole Number: AH-5W | Borehole Diameter (in.): 2 | Date Started: 3/5/2020 | Date Finished: 3/5/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
			36	0								**-CL-** SANDY CLAY; Reddish brown, medium stiff to stiff, with no odor, with no staining.		AH-5W (0'-1')
			1290										4	AH-5W (0'-1')

Bottom of borehole at 4.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:
Analytical samples are shown in the "Remarks" column.
Surface elevation is an estimated value.

Logger: Adrian Garrcia | Drilling Equipment: Hand Auger | Driller: Tetra Tech

COP MCA 2-C HEADER BORINGS .GPJ ` 3-17-20 ` TT_AUSTIN_GEOTECH_NOWELL3 ` 2015 TT TEMPLATE DECEMBER WELL.GDT ' ` Revised 5-16-12 (RHM)

212C-MD-02119	TETRA TECH	LOG OF BORING AH-6E	Page 1 of 1

Project Name: MCA 2-C Header Release Boring Logs

Borehole Location: GPS: 32.802791°, -103.768935° | Surface Elevation: 3954 ft

Borehole Number: AH-6E | Borehole Diameter (in.): 2 | Date Started: 3/5/2020 | Date Finished: 3/5/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
			35	0								**-SM-** SILTY SAND; Red, loose, fine grained, with no odor, with no staining.	2	AH-6E (0'-1')
			1290									**-CL-** SANDY CLAY; Reddish brown, medium stiff to stiff, with no odor, with no staining.	4	AH-6E (0'-1')

Bottom of borehole at 4.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:
Analytical samples are shown in the "Remarks" column.
Surface elevation is an estimated value.

Logger: Adrian Garrcia | Drilling Equipment: Hand Auger | Driller: Tetra Tech

212C-MD-02119	TETRA TECH	LOG OF BORING AH-6W	Page 1 of 1

Project Name: MCA 2-C Header Release Boring Logs

Borehole Location: GPS: 32.802755°, -103.769149° | Surface Elevation: 3954 ft

Borehole Number: AH-6W | Borehole Diameter (in.): 2 | Date Started: 3/5/2020 | Date Finished: 3/5/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
			20	0								**-SM-** SILTY SAND; Red, loose, fine grained, with no odor, with no staining.	2	AH-6W (0'-1')
			130									**-CL-** SANDY CLAY; Reddish brown, medium stiff to stiff, with no odor, with no staining.	4	AH-6W (0'-1')

Bottom of borehole at 4.0 feet.

Sampler Types: Split Spoon, Shelby, Bulk Sample, Grab Sample, Acetate Liner, Vane Shear, California, Test Pit

Operation Types: Mud Rotary, Continuous Flight Auger, Wash Rotary, Hand Auger, Air Rotary, Direct Push, Core Barrel

Notes:
Analytical samples are shown in the "Remarks" column.
Surface elevation is an estimated value.

Logger: Adrian Garrcia | Drilling Equipment: Hand Auger | Driller: Tetra Tech

212C-MD-02119	TETRA TECH	**LOG OF BORING AH-7E**	Page 1 of 1

Project Name: MCA 2-C Header Release Boring Logs

Borehole Location: GPS: 32.803195°, -103.769151° | Surface Elevation: 3956 ft

Borehole Number: AH-7E | Borehole Diameter (in.): 2 | Date Started: 3/5/2020 | Date Finished: 3/5/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
			36	0								**-SM-** SILTY SAND; Red, loose, fine grained, with no odor, with no staining.	2	AH-7E (0'-1')
			1250	0								**-CL-** SANDY CLAY; Reddish brown, medium stiff to stiff, with no odor, with no staining.	4	AH-7E (0'-1')

Bottom of borehole at 4.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:
Analytical samples are shown in the "Remarks" column.
Surface elevation is an estimated value.

Logger: Adrian Garrcia | Drilling Equipment: Hand Auger | Driller: Tetra Tech

212C-MD-02119 | TETRA TECH | **LOG OF BORING AH-7W** | Page 1 of 1

Project Name: MCA 2-C Header Release Boring Logs

Borehole Location: GPS: 32.803096°, -103.769409° | Surface Elevation: 3954 ft

Borehole Number: AH-7W | Borehole Diameter (in.): 2 | Date Started: 3/5/2020 | Date Finished: 3/5/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
			50	0								**-SM-** SILTY SAND; Red, loose, fine grained, with no odor, with no staining.	2	AH-7W (0'-1')
			1250	0								**-CL-** SANDY CLAY; Reddish brown, medium stiff to stiff, with no odor, with no staining.	4	AH-7W (0'-1')

Bottom of borehole at 4.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:
Analytical samples are shown in the "Remarks" column.
Surface elevation is an estimated value.

Logger: Adrian Garrcia | Drilling Equipment: Hand Auger | Driller: Tetra Tech

212C-MD-02119 | TETRA TECH | **LOG OF BORING AH-8E** | Page 1 of 1

Project Name: MCA 2-C Header Release Boring Logs

Borehole Location: GPS: 32.803673°, -103.769291° | Surface Elevation: 3958 ft

Borehole Number: AH-8E | Borehole Diameter (in.): 2 | Date Started: 3/6/2020 | Date Finished: 3/6/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
			780	0								**-SM-** SILTY SAND; Red, loose, fine grained, with no odor, with no staining.	2	AH-8E (0'-1')
			350	0								**-ML-** SILT; White, dense, caliche, with no odor, with no staining.	4	AH-8E (0'-1')

Bottom of borehole at 4.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:
Analytical samples are shown in the "Remarks" column.
Surface elevation is an estimated value.

Logger: Adrian Garrcia | Drilling Equipment: Hand Auger | Driller: Tetra Tech

212C-MD-02119 | TETRA TECH | **LOG OF BORING AH-8N** | Page 1 of 1

Project Name: MCA 2-C Header Release Boring Logs

Borehole Location: GPS: 32.803794°, -103.769365° | Surface Elevation: 3960 ft

Borehole Number: AH-8N | Borehole Diameter (in.): 2 | Date Started: 3/6/2020 | Date Finished: 3/6/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
			68	0								**-SM-** SILTY SAND; Red, loose, fine grained, with no odor, with no staining.	2	AH-8N (0'-1')
			450	0								**-ML-** SILT; White, dense, caliche, with no odor, with no staining.	4	AH-8N (0'-1')

Bottom of borehole at 4.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:
Analytical samples are shown in the "Remarks" column.
Surface elevation is an estimated value.

Logger: Adrian Garrcia | Drilling Equipment: Hand Auger | Driller: Tetra Tech

212C-MD-02119	TETRA TECH	**LOG OF BORING AH-8W**	Page 1 of 1

Project Name: MCA 2-C Header Release Boring Logs

Borehole Location: GPS: 32.803759°, -103.769518° | Surface Elevation: 3960 ft

Borehole Number: AH-8W | Borehole Diameter (in.): 2 | Date Started: 3/6/2020 | Date Finished: 3/6/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
			400	0								**-SM-** SILTY SAND; Red, loose, fine grained, with no odor, with no staining.	2	AH-8W (0'-1')
			324	0								**-ML-** SILT; White, dense, caliche, with no odor, with no staining.	4	AH-8W (0'-1')

Bottom of borehole at 4.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:

Analytical samples are shown in the "Remarks" column.
Surface elevation is an estimated value.

Logger: Adrian Garrcia | Drilling Equipment: Hand Auger | Driller: Tetra Tech

212C-MD-02119 | TETRA TECH | **LOG OF BORING AH-9E** | Page 1 of 1

Project Name: MCA 2-C Header Release Boring Logs

Borehole Location: GPS: 32.803751°, -103.769990° | Surface Elevation: 3959 ft

Borehole Number: AH-9E | Borehole Diameter (in.): 2 | Date Started: 3/6/2020 | Date Finished: 3/6/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
			28	0								**-SM-** SILTY SAND; Red, loose, fine grained, with no odor, with no staining.		AH-9E (0'-1')
													2	
			375	0								**-ML-** SILT; White, dense, caliche, with no odor, with no staining.	4	AH-9E (0'-1')

Bottom of borehole at 4.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:
Analytical samples are shown in the "Remarks" column.
Surface elevation is an estimated value.

Logger: Adrian Garrcia | Drilling Equipment: Hand Auger | Driller: Tetra Tech

212C-MD-02119	TETRA TECH	**LOG OF BORING AH-9W**	Page 1 of 1

Project Name: MCA 2-C Header Release Boring Logs

Borehole Location: GPS: 32.803726°, -103.770242° | Surface Elevation: 3960 ft

Borehole Number: AH-9W | Borehole Diameter (in.): 2 | Date Started: 3/6/2020 | Date Finished: 3/6/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
			400	0								**-SM-** SILTY SAND; Red, loose, fine grained, with no odor, with no staining.		AH-9W (0'-1')
													2	
												-ML- SILT; White, dense, caliche, with no odor, with no staining.		
			375	0									4	AH-9W (0'-1')

Bottom of borehole at 4.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:

Analytical samples are shown in the "Remarks" column.
Surface elevation is an estimated value.

Logger: Adrian Garrcia | Drilling Equipment: Hand Auger | Driller: Tetra Tech

212C-MD-02119	TETRA TECH	LOG OF BORING AH-10E	Page 1 of 1

Project Name: MCA 2-C Header Release Boring Logs

Borehole Location: GPS: 32.803278°, -103.769904°° | Surface Elevation: 3956 ft

Borehole Number: AH-10E | Borehole Diameter (in.): 2 | Date Started: 3/9/2020 | Date Finished: 3/9/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
			29	0								**-SM-** SILTY SAND; Red, loose, fine grained, with no odor, with no staining.	2	AH-10E (0'-1')
			67	0								**-CL-** LEAN CLAY: Red; with no odor, with no staining.	4	AH-10E (0'-1')

Bottom of borehole at 4.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:

Analytical samples are shown in the "Remarks" column.
Surface elevation is an estimated value.

Logger: Adrian Garrcia | Drilling Equipment: Hand Auger | Driller: Tetra Tech

212C-MD-02119 | TETRA TECH | **LOG OF BORING AH-10W** | Page 1 of 1

Project Name: MCA 2-C Header Release Boring Logs

Borehole Location: GPS: 32.803254°, -103.770044° | Surface Elevation: 3956 ft

Borehole Number: AH-10W | Borehole Diameter (in.): 2 | Date Started: 3/9/2020 | Date Finished: 3/9/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
			35	0								**-SM-** SILTY SAND; Red, loose, fine grained, with no odor, with no staining.	2	AH-10W (0'-1')
			58	0								**-CL-** LEAN CLAY: Red; with no odor, with no staining.	4	AH-10W (0'-1')

Bottom of borehole at 4.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:

Analytical samples are shown in the "Remarks" column.
Surface elevation is an estimated value.

Logger: Adrian Garrcia | Drilling Equipment: Hand Auger | Driller: Tetra Tech

212C-MD-02119 | TETRA TECH | **LOG OF BORING AH-11E** | Page 1 of 1

Project Name: MCA 2-C Header Release Boring Logs

Borehole Location: GPS: 32.803034°, -103.769871° | Surface Elevation: 3954 ft

Borehole Number: AH-11E | Borehole Diameter (in.): 2 | Date Started: 3/10/2020 | Date Finished: 3/10/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
			54	0								**-SM-** SILTY SAND; Red, loose, fine grained, with no odor, with no staining.	2	AH-11E (0'-1')
			325	0								**-CL-** SANDY CLAY; Reddish brown, medium stiff to stiff, with no odor, with no staining.	4	AH-11E (0'-1')

Bottom of borehole at 4.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:
Analytical samples are shown in the "Remarks" column.
Surface elevation is an estimated value.

Logger: Adrian Garrcia | Drilling Equipment: Hand Auger | Driller: Tetra Tech

212C-MD-02119	TETRA TECH	LOG OF BORING AH-11W	Page 1 of 1

Project Name: MCA 2-C Header Release Boring Logs

Borehole Location: GPS: 32.803015°, -103.769984° | Surface Elevation: 3954 ft

Borehole Number: AH-11W | Borehole Diameter (in.): 2 | Date Started: 3/9/2020 | Date Finished: 3/9/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
			38	0								**-SM-** SILTY SAND; Red, loose, fine grained, with no odor, with no staining.	2	AH-11W (0'-1')
			413	0								**-CL-** SANDY CLAY; Reddish brown, medium stiff to stiff, with no odor, with no staining.	4	AH-11W (0'-1')

Bottom of borehole at 4.0 feet.

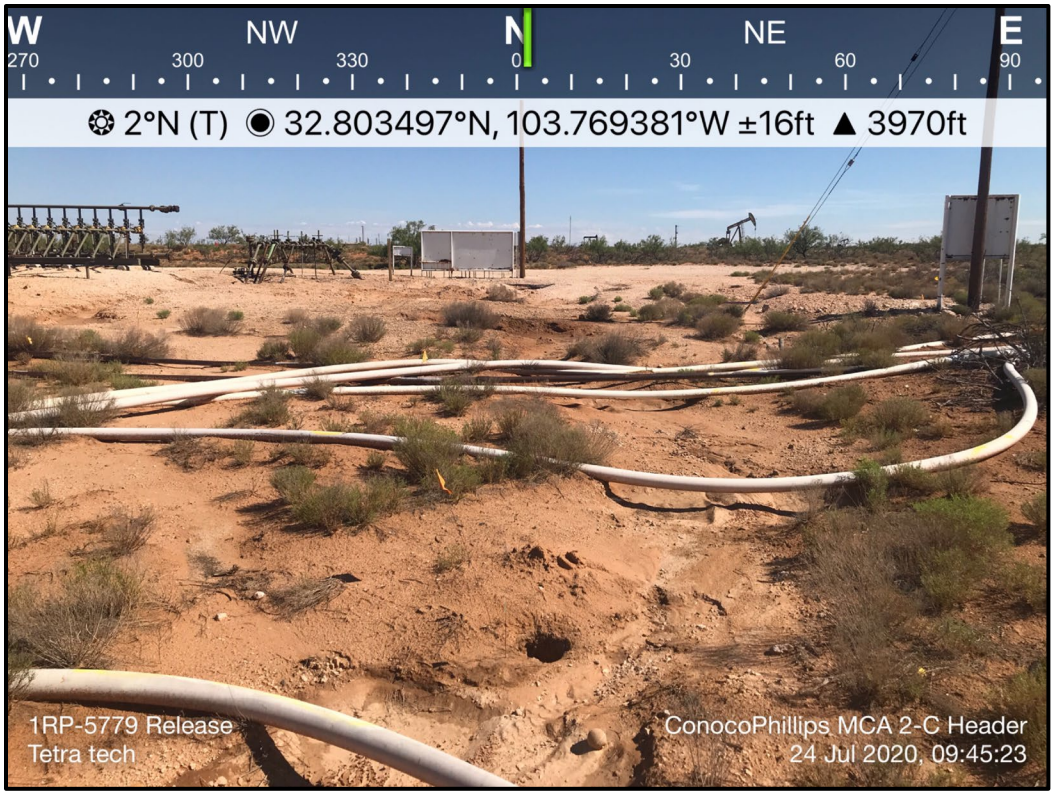
Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

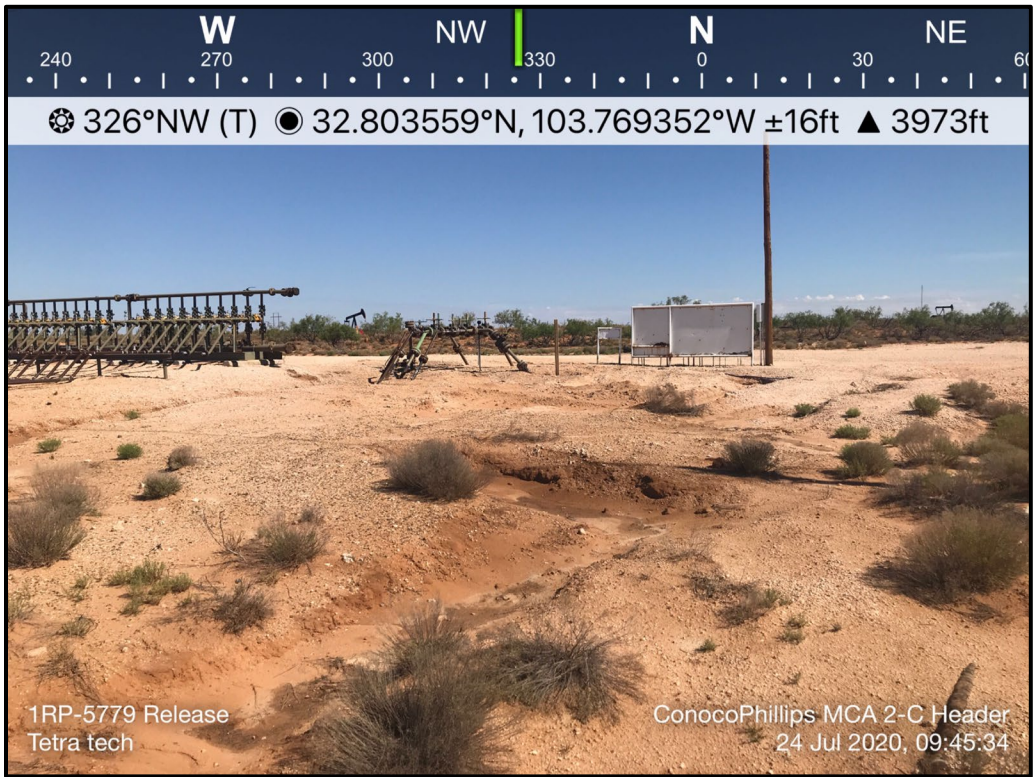
Notes:
Analytical samples are shown in the "Remarks" column.
Surface elevation is an estimated value.

Logger: Adrian Garrcia | Drilling Equipment: Hand Auger | Driller: Tetra Tech

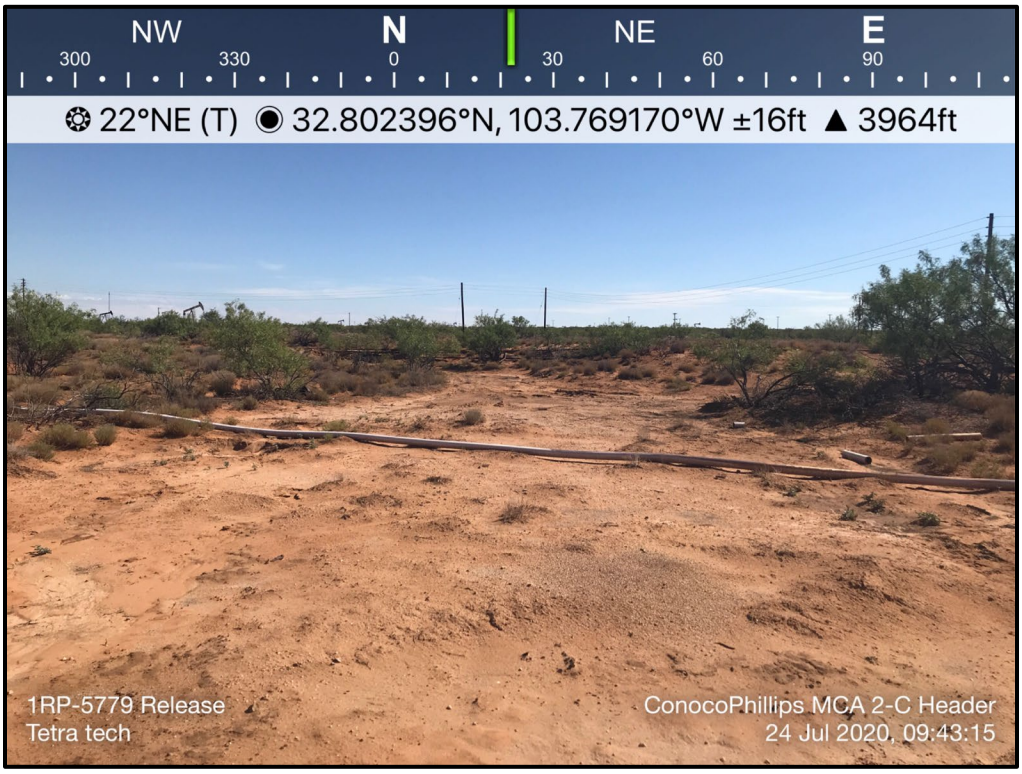
APPENDIX E
Photographic Documentation



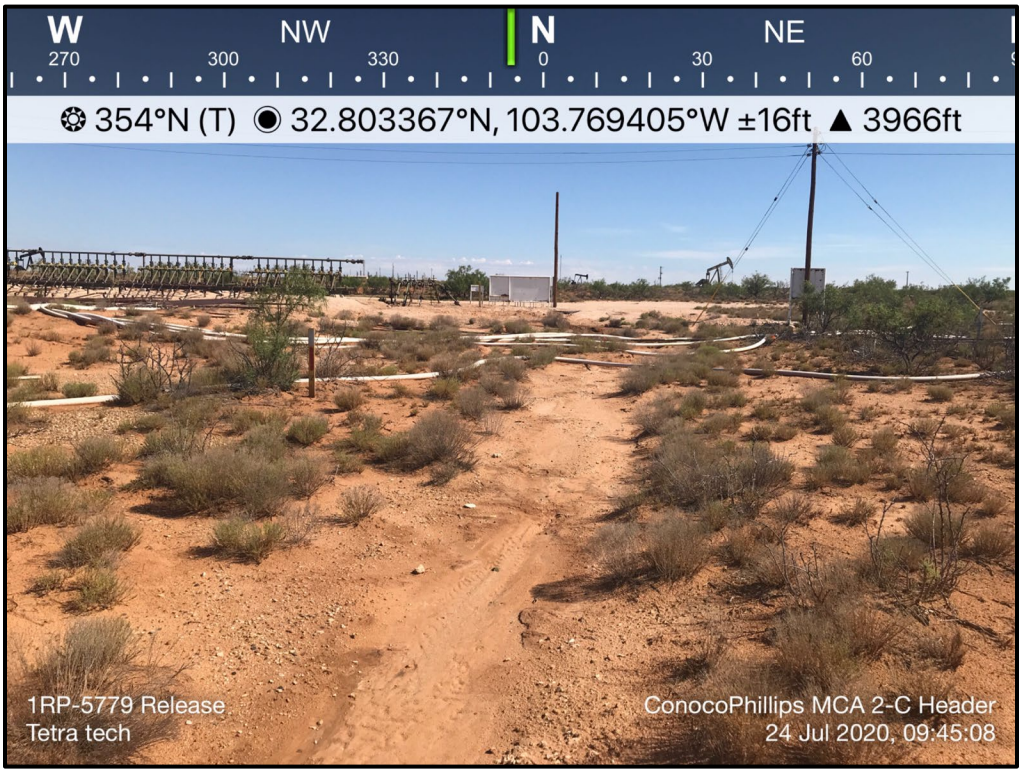
TETRA TECH, INC. PROJECT NO. 212C-MD-02119	DESCRIPTION	View north. Northern portion of the 1RP-5779 release footprint.	1
	SITE NAME	MCA 2-C Header Release	7/24/2020



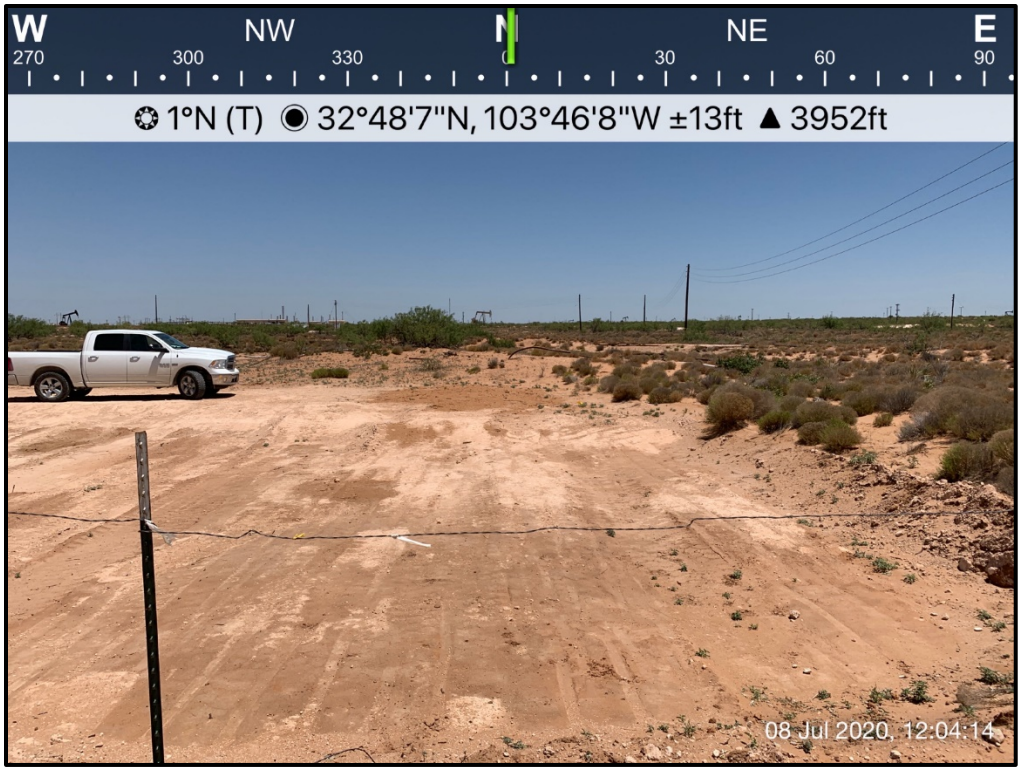
TETRA TECH, INC. PROJECT NO. 212C-MD-02119	DESCRIPTION	View north. Northern portion of the 1RP-5779 release footprint.	2
	SITE NAME	MCA 2-C Header Release	7/24/2020



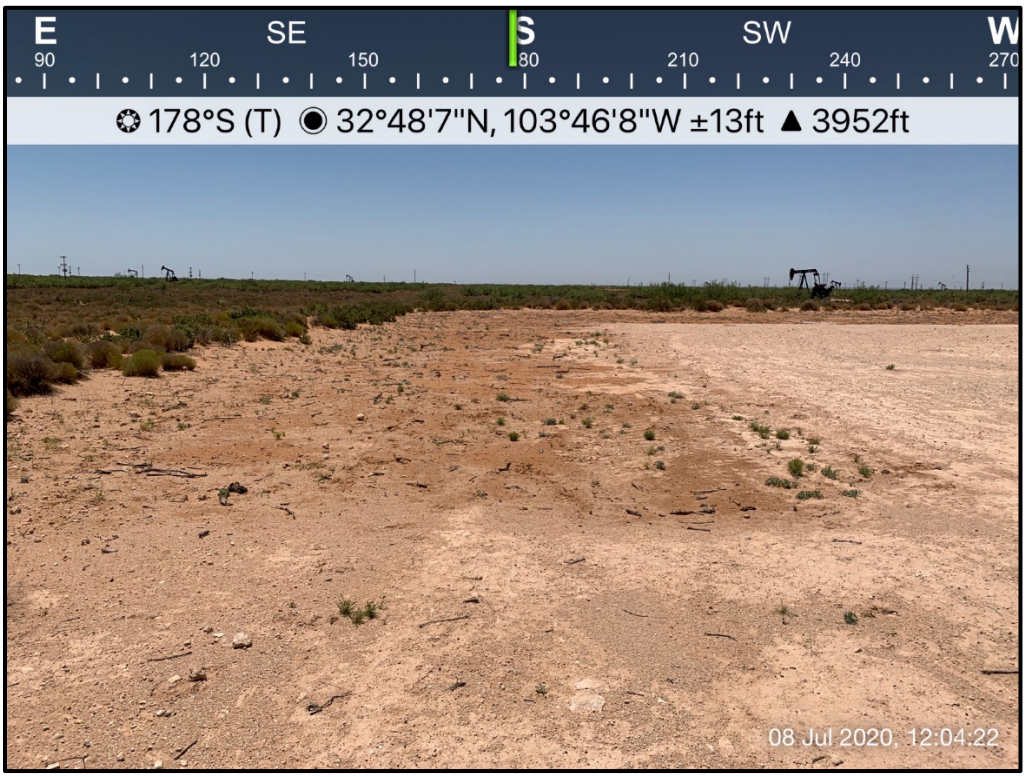
TETRA TECH, INC. PROJECT NO. 212C-MD-02119	DESCRIPTION	View north. Central portion of the 1RP-5779 release footprint.	3
	SITE NAME	MCA 2-C Header Release	7/24/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02119	DESCRIPTION	View north. Central portion of the 1RP-5779 release footprint.	4
	SITE NAME	MCA 2-C Header Release	7/24/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02119	DESCRIPTION	View north. Southern portion of the 1RP-5779 release footprint.	5
	SITE NAME	MCA 2-C Header Release	7/08/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02119	DESCRIPTION	View south. Production pad south of release footprint.	6
	SITE NAME	MCA 2-C Header Release	7/08/2020

APPENDIX F
NMSLO Seed Mixture

NMSLO Seed Mix Sandy (S)

SANDY (S) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Sand bluestem	**Elida, VNS, So.**	**2.0**	**F**
Little bluestem	**Cimarron, Pastura**	**3.0**	**F**
Black grama	**VNS, Southern**	**1.0**	**D**
Sand dropseed	**VNS, Southern**	**4.0**	**S**
Plains bristlegrass	**VNS, Southern**	**2.0**	**D**
Forbs:			
Firewheel (Gaillardia)	**VNS, Southern**	**1.0**	**D**
Annual Sunflower	**VNS, Southern**	**1.0**	**D**
Shrubs:			
Fourwing Saltbush	**VNS, Southern**	**1.0**	**F**
	Total PLS/acre	**16.0**	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box
VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at http://plants.usda.gov.

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Robert Hamlet Date: _____

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 36395

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 36395
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. The alternative confirmation sampling plan taking confirmation samples no more than 500 square feet is approved. All contaminated soil in the top 4 ft must meet the strictest closure criteria standards. In the pasture area, 4 feet below the ground surface, soil contamination limits revert back to Table 1 standards for proven depth to water determination. Please make sure all sidewall samples are delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All floor samples 4 ft below ground surface need to be equal to or less than closure criteria for depth to water of 51'-100' from Table 1 of the OCD Spill Rule.	11/8/2021