



April 20, 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 300 Flowline Release  
Unit Letter J, Section 28, Township 17 South, Range 32 East  
Lea County, New Mexico  
1RP-5752  
Incident ID NRM1929049253**

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to evaluate and assess a release that occurred from the Maljamar Cooperative Agreement (MCA) #300 well flowline. The MCA #300 well is located at 32.79611°, -103.77401°, approximately 2,700 feet (ft) southwest of the release site. The API # associated with the MCA #300 is 30-025-23984. 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 32.802891°, -103.769883°. 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 4, 2019. The release occurred as the result of a flowline rupture south of the MCA 2C header and encompassed an area of approximately 3,100 square feet. Approximately 5 barrels (bbls) of crude oil and 33 bbls of produced water were released, of which 2 bbls of crude oil and 9 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 October 17, 2019 and subsequently assigned the Site the Remediation Permit (RP) number 1RP-5752 and Incident Identification (ID) NRM1929049253. The initial C-141 Form for 1RP-5752 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 six wells within a ½ mile (800-meter) radius of the Site with

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an average depth to groundwater at 99 ft below ground surface (bgs). The minimum depth to groundwater in the area is 75 ft bgs. The site characterization data is included in Appendix B.

## REGULATORY FRAMEWORK

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 RESPONSE

Per 19.15.29.8 B. (4) NMAC, the responsible party may commence remediation immediately after discovery of a release. Free fluids were recovered with a vacuum truck during initial response. The release footprint was initially fenced to limit access to the site as necessary to protect human health and the environment. COP initiated remediation activities in early 2020. During remediation, the visibly impacted soils within the release extent were excavated to 1 foot below ground surface (bgs). After the initial response remediation activities, further remediation efforts were halted to assess soils both vertically and horizontally for potential environmental impacts.

## SITE ASSESSMENT

Based on review of the release area and available documentation, the release associated with 1RP-5752 occurred within the footprint of a previous release associated with 1RP-3579. The 1RP-3579 release encompasses and extends approximately 330 ft north of the 1RP-5752 release footprint.

In order to achieve horizontal and vertical delineation of the 1RP-5752 release extent, Tetra Tech personnel conducted soil sampling from March to July 2020 on behalf of COP. With an abundance of surface flowlines and subsurface injection lines running across and through the release footprint, a drilling rig was not able to safely access the release extent footprint and drill for release characterization and 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.

For the additional delineation, a total of four (4) test pits (or trenches) were completed within the interior of the 1RP-5752 release extent. One test pit/trench were completed outside the 1RP-5752 release extent, as a portion of the investigation of the 1RP-3579 release extent. Trenches (T)-1 through T-4 were completed in the 1RP-5752 release footprint and T-11 was completed in the 1RP-3579 release 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 east, south and west) 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-1E and AH-1W are locations which provide horizontal delineation on the east and west sides of T-1, respectively. 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-1E-2). 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.

A total of 72 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 ASSESSMENT AND RELEASE CHARACTERIZATION

During the initial assessment event in 2020, the analytical results associated with boring locations T-2 through T-4, AH-1S, AH-9W and AH-11W were above RRALs for TPH and/or chloride in the majority of the surface sample intervals. Analytical results associated with boring locations AH-1S-2, AH-1S-3, AH-1E-2, AH-1W, AH-1E, AH-2W, AH-2E, AH-3W, AH-3E, AH-4W, AH-4E, AH-11W-2 and AH-11E were below the RRALs for TPH, BTEX and chloride. Results from the 2020 soil sampling events are summarized in Table 1.

The MCA 2-C Production Header facility area has numerous underground injection lines and surface flowlines, in addition to piping and production equipment throughout the area. 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-3 was installed within the release footprint to specifically clarify the vertical extent of the release in the 1RP-5752 footprint. The analytical results associated with the 10'-11' sample at T-3 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-1S location exceeded the RRAL for TPH, however, AH-1S-2 & AH-1S-3 were completed as additional southern delineation points and were below the applicable RRALs. AH-2E, AH-3E, AH-4E, AH-9E, AH-10E and AH-11E bound the release to the east. After several iterative boring locations, the release extent is bound to the west by locations AH-1W, AH-2W, AH-3W, AH-4W, AH-9W-2, AH-9W-3, AH-9W-4 and AH-9W-5. AH-9N bounds the release to the north. The analytical results associated with these samples collected around the release area in the upper four ft were below the reclamation RRALs for total TPH (GRO + DRO + ORO), BTEX and/or chloride in all samples. These borings meet the requirements for horizontal delineation per 19.15.29.11(A)(5)(b) NMAC. The trench and 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-1 through T-4, 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, hoe rams, 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 RRAL for chlorides (600 mg/kg). 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 335 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 5. Approximately ten (10) confirmation floor samples and sixteen (16) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses an area of approximately 3,000 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 2021 (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 90 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. Marvin Sorawei, 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 Response
- Figure 4 – Assessment Map
- Figure 5 – Proposed Remediation Extent
- Figure 6 – Alternative Confirmation Sampling Plan

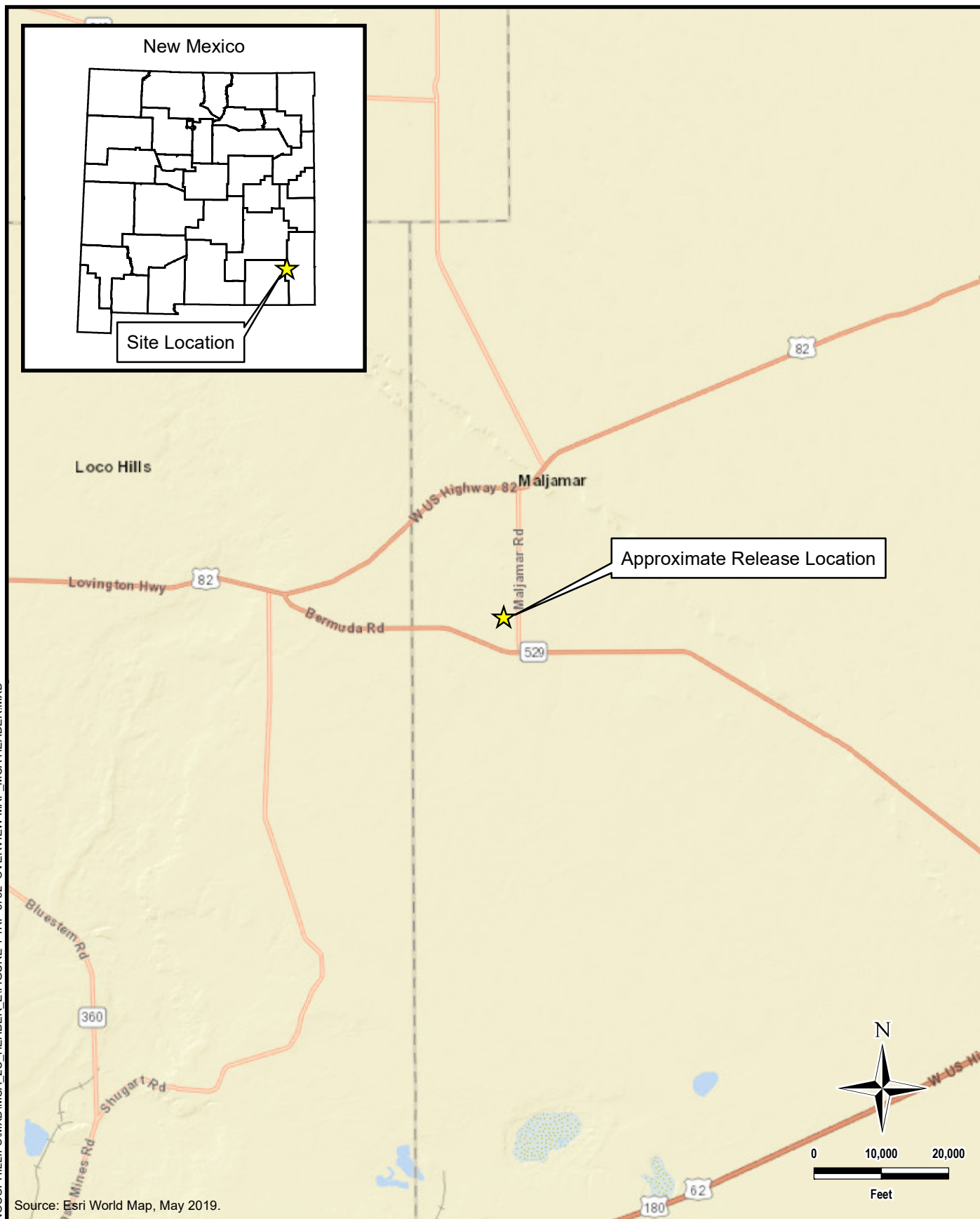
Tables:

- Table 1 – Summary of Analytical Results – 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 Details

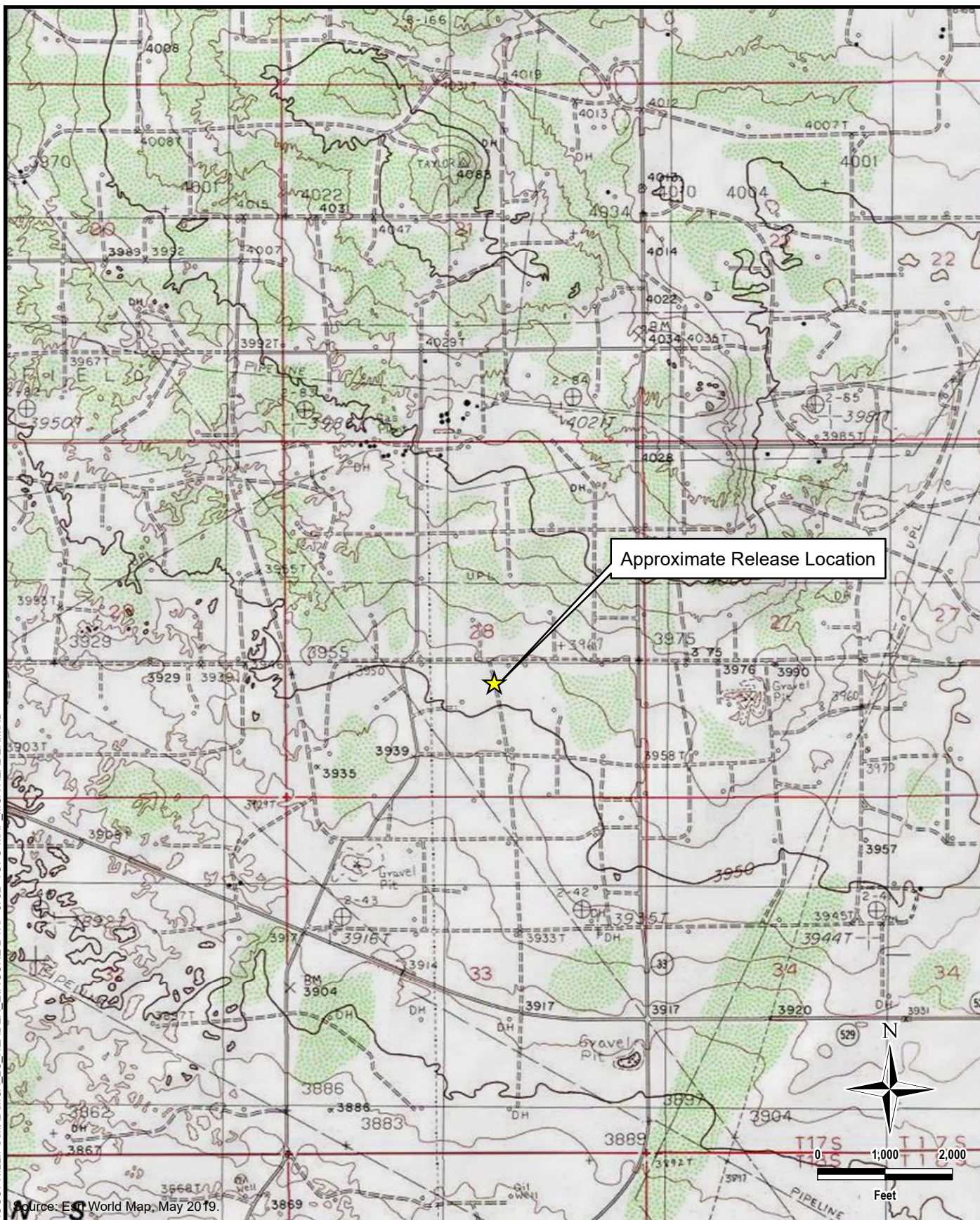
# **FIGURES**



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\MCA\_2C\_HEADER\_EIFIGURE 1 1RP-5752 OVERVIEW MAP\_MCA HEADER.MXD

Source: Esri World Map, May 2019.

 <b>TETRA TECH</b> www.tetrattech.com 901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559 Fax: (432) 682-3946	CONOCOPHILLIPS 1RP-5752 (32.802891°, -103.769883°) LEA COUNTY, NEW MEXICO	PROJECT NO.: 212C-MD-02020 DATE: SEPTEMBER 29, 2020 DESIGNED BY: AAM
	<b>MCA 300 FLOWLINE RELEASE OVERVIEW MAP</b>	Figure No. <b>1</b>



DOCUMENT PATH: D:\CONOCOPHILLIPS\MCA\_2C\_HEADER\_E\FIGURE 2 1RP-5752 TOPO MAP MCA HEADER.MXD

Source: Esri World Map, May 2019.



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1RP-5752  
 (32.802891°, -103.769883°)  
 LEA COUNTY, NEW MEXICO

**MCA 300 FLOWLINE RELEASE  
 TOPOGRAPHIC MAP**

PROJECT NO.: 212C-MD-02020

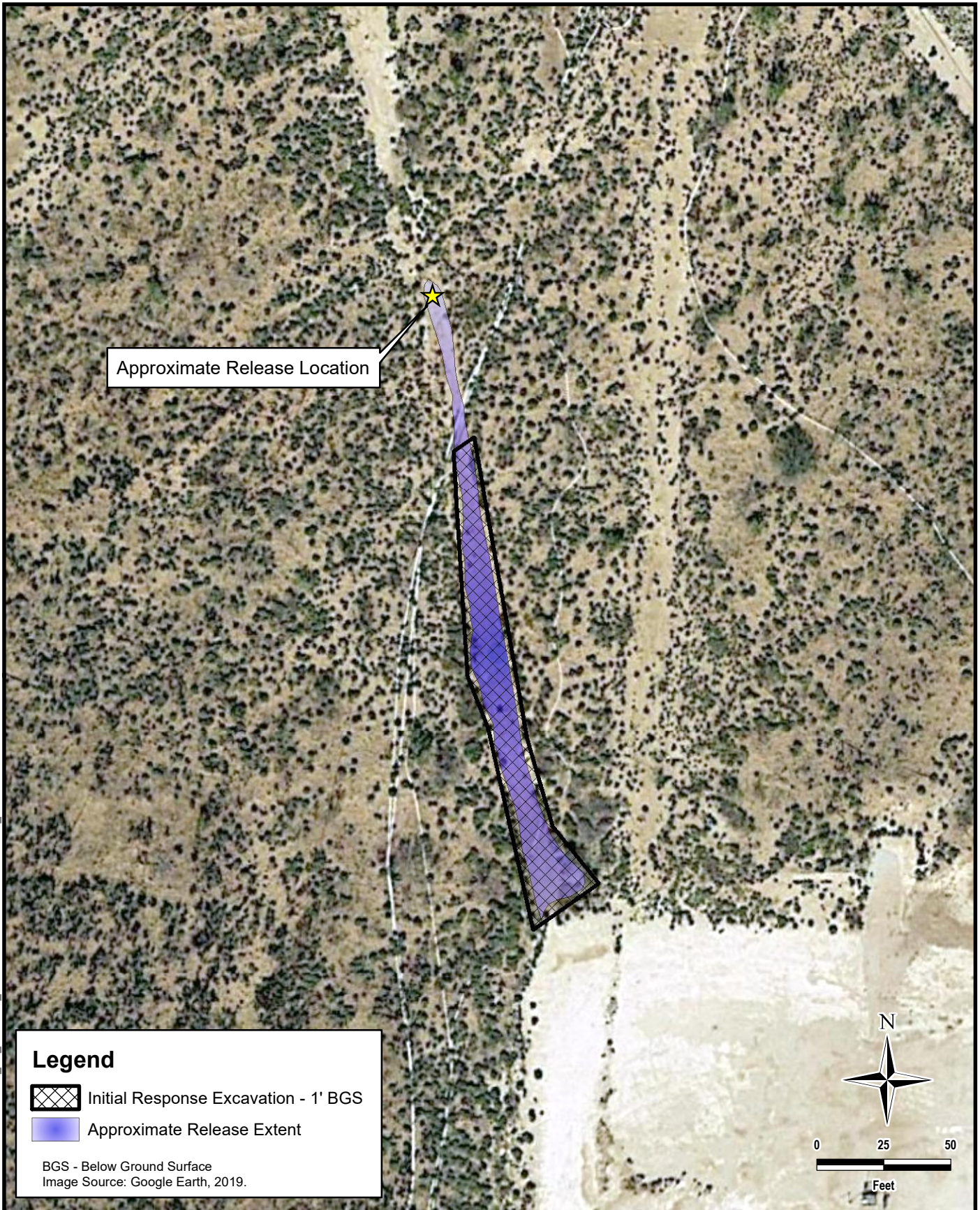
DATE: SEPTEMBER 29, 2020

DESIGNED BY: AAM

Figure No.



**2**



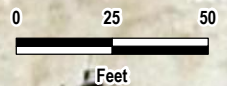


Approximate Release Location

**Legend**

-  Initial Response Excavation - 1' BGS
-  Approximate Release Extent

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



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**MCA 300 FLOWLINE RELEASE  
APPROXIMATE RELEASE EXTENT AND INITIAL RESPONSE**

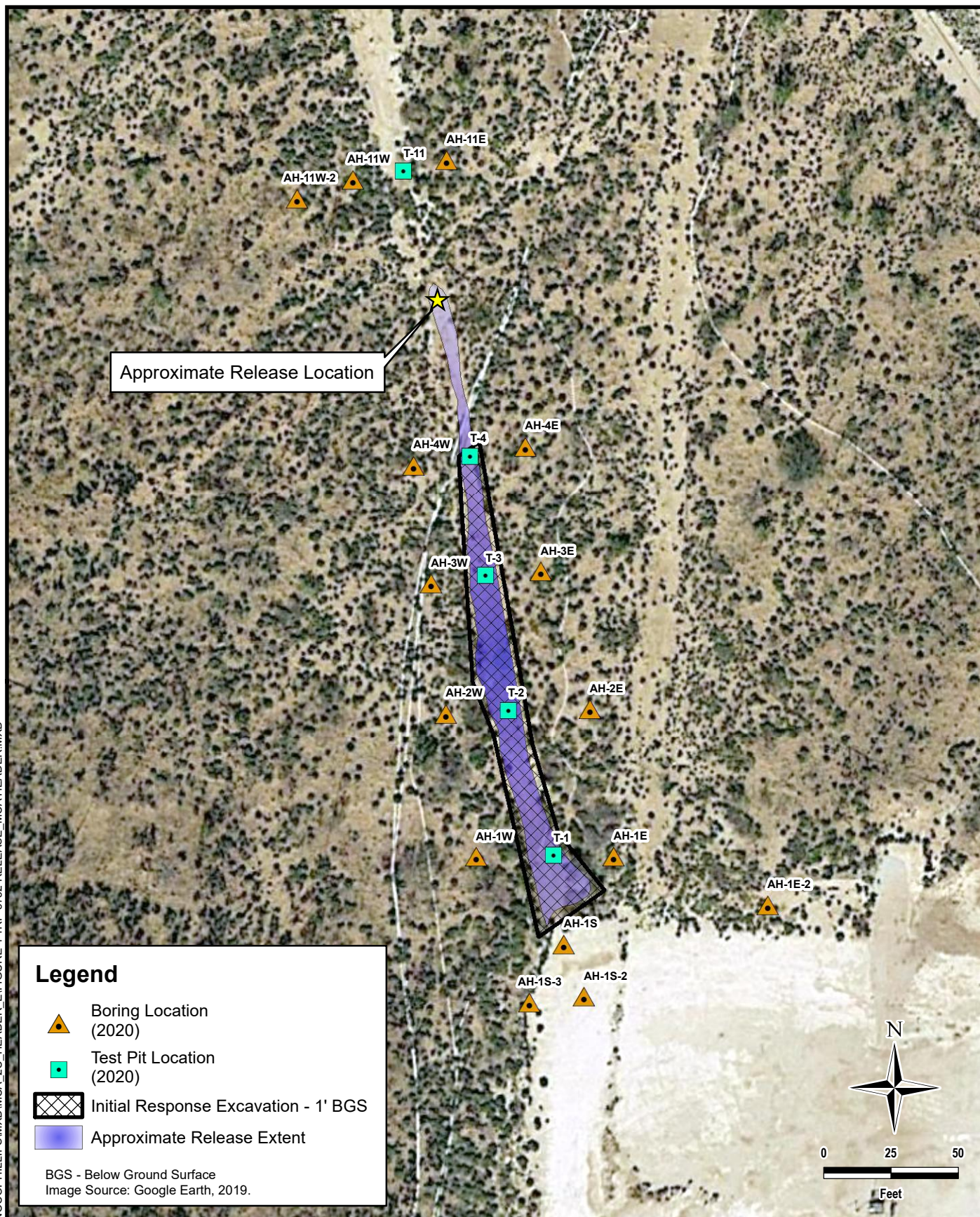
PROJECT NO.: 212C-MD-02119

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DESIGNED BY: AAM





Figure No.

**3**



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### Legend

-  Boring Location (2020)
-  Test Pit Location (2020)
-  Initial Response Excavation - 1' BGS
-  Approximate Release Extent

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



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LEA COUNTY, NEW MEXICO

### MCA 300 FLOWLINE RELEASE ASSESSMENT MAP

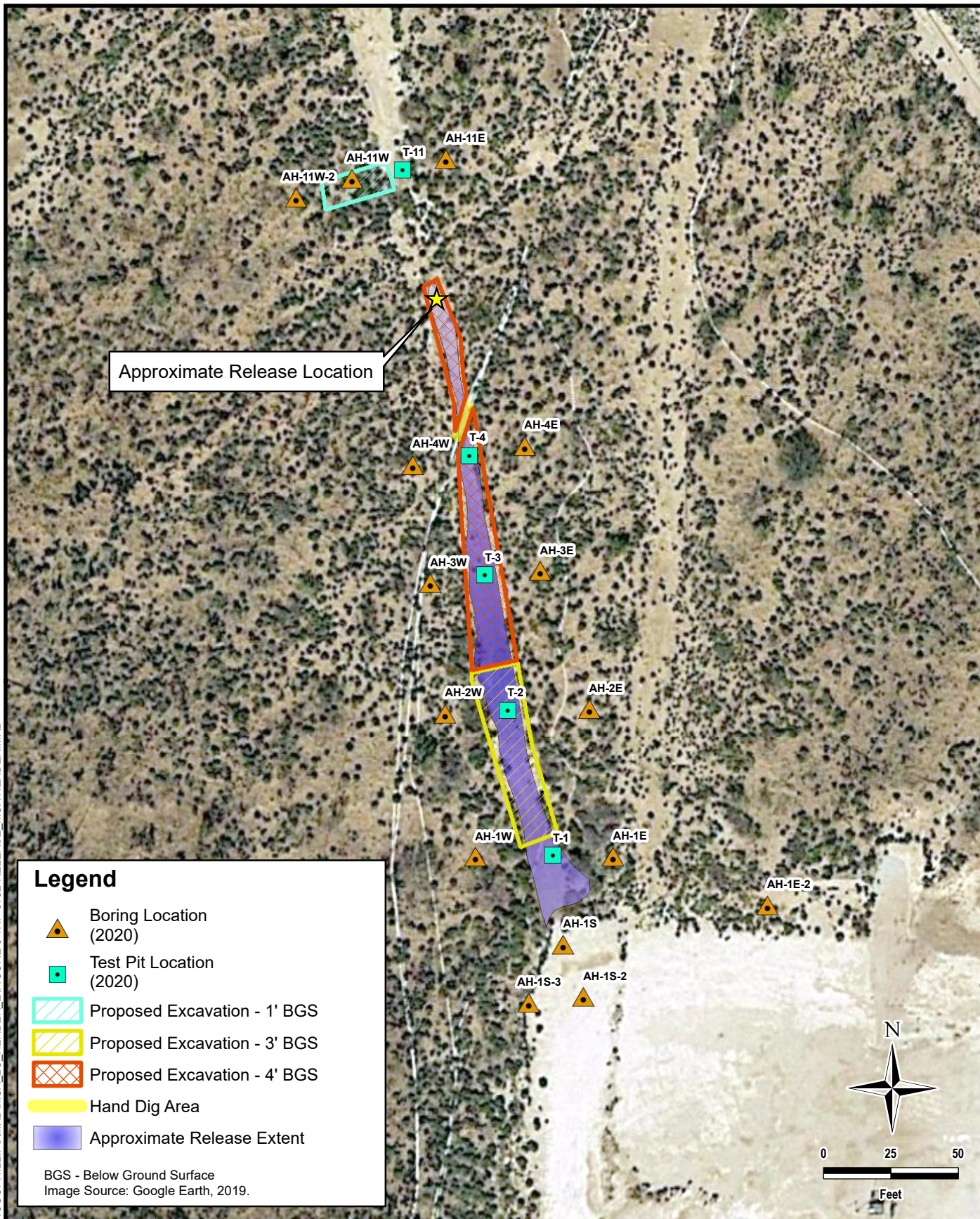
PROJECT NO.: 212C-MD-02119

DATE: FEBRUARY 09, 2021

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Figure No.

4



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**Legend**

-  Boring Location (2020)
-  Test Pit Location (2020)
-  Proposed Excavation - 1' BGS
-  Proposed Excavation - 3' BGS
-  Proposed Excavation - 4' BGS
-  Hand Dig Area
-  Approximate Release Extent

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



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1RP-5752  
(32.802891°, -103.769883°)  
LEA COUNTY, NEW MEXICO

**MCA 300 FLOWLINE RELEASE  
PROPOSED REMEDIATION EXTENT**

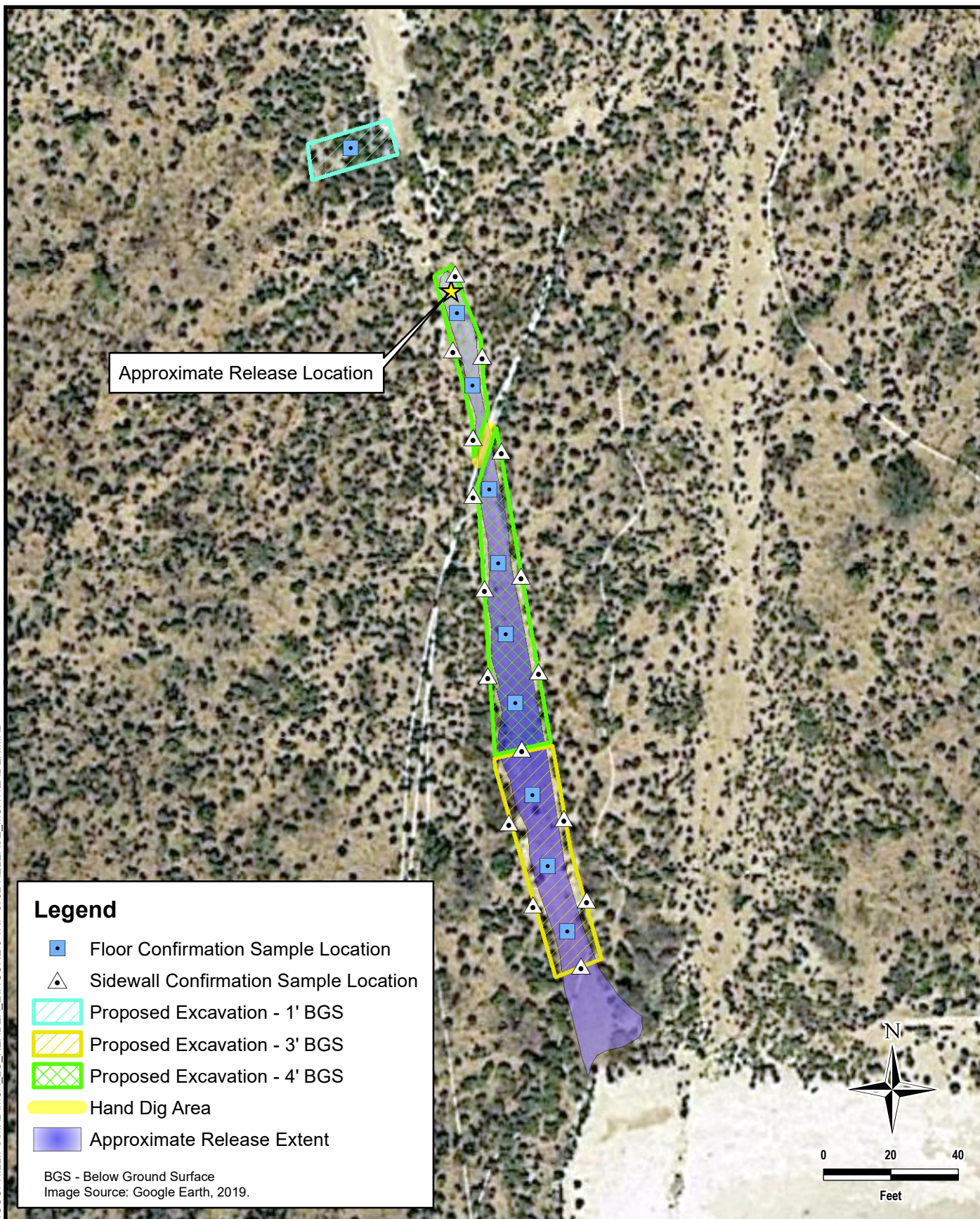
PROJECT NO.: 212C-MD-02119

DATE: FEBRUARY 09, 2021

DESIGNED BY: AAM

Figure No.

**5**



DOCUMENT PATH: D:\CONOCOPHILLIPS\MCA\_2C\_HEADER\_E\FIGURE 6 1RP-5752 RELEASE\_MCA HEADER.MXD

**Legend**

- Floor Confirmation Sample Location
- Sidewall Confirmation Sample Location
- Proposed Excavation - 1' BGS
- Proposed Excavation - 3' BGS
- Proposed Excavation - 4' BGS
- Hand Dig Area
- Approximate Release Extent

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



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**MCA 300 FLOWLINE RELEASE  
ALTERNATIVE CONFIRMATION SAMPLING PLAN**

PROJECT NO.: 212C-MD-02119

DATE: FEBRUARY 09, 2021

DESIGNED BY: AAM

Figure No.

**6**

# **TABLES**

TABLE 1  
 SUMMARY OF ANALYTICAL RESULTS  
 SOIL ASSESSMENT - 1RP-5752  
 CONOCOPHILLIPS  
 MCA 300 FLOWLINE RELEASE  
 LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chloride <sup>1</sup>		BTEX <sup>2</sup>							TPH <sup>3</sup>									
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO <sup>4</sup>		DRO		ORO	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	Q	mg/kg	Q	mg/kg	Q	mg/kg		Q
T-1	3/3/2020	1-2	395	0.1	243		< 0.00112		< 0.00562		< 0.00281		< 0.00731		-		< 0.114		6.05		16.3		22.4
		3-4	390	-	130		< 0.00129		< 0.00643		< 0.00321		< 0.00836		-		< 0.130		< 5.14		1.31	J	1.31
		5-6	190	0.0	34.9		< 0.00125		< 0.00626		< 0.00313		< 0.00814		-		< 0.110		< 4.39		4.24	J	4.24
AH-1E	3/3/2020	0-1	100	0.0	8.57	BJ	< 0.00102		< 0.00510		< 0.00255		< 0.00664		-		< 0.102		16.0		42.3		58.3
		3-4	26	0.0	51.6		< 0.00109		< 0.00544		< 0.00272		< 0.00707		-		< 0.109		5.27		19.8		25.1
AH-1E-2	7/23/2020	0-1	62.4	1.8	< 21.2		< 0.00106		< 0.00531		< 0.00265		< 0.00690		-		< 0.106		< 4.24		1.59	J	1.59
		2-3	49.4	2.2	< 21.0		< 0.00105		< 0.00526		< 0.00263		< 0.00684		-		< 0.105		< 4.21		3.96	J	3.96
AH-1S	3/3/2020	0-1	120	0.0	11.0	B	< 0.00125		< 0.00627		< 0.00313		< 0.00815		-		< 0.104		19.1	J	41.4	J	60.5
		3-4	95	-	20.6		< 0.00106		< 0.00532		< 0.00266		< 0.00691		-		< 0.106		67.8		74.6		142
AH-1S-2	7/8/2020	0-1	225	0.0	< 21.4		< 0.00107		< 0.00535		< 0.00268		< 0.00696		-		< 0.107		3.23	J	14.3		17.5
		2-3	90	0.0	< 20.7		< 0.00104		< 0.00519		< 0.00259		< 0.00674		-		< 0.104		2.53	J	11.7		14.2
AH-1S-3	7/24/2020	0-1	62.6	3.2	< 24.2		< 0.00142		< 0.00711		< 0.00356		< 0.00925		-	0.0703	J V3	< 4.84		1.43	J	1.50	
		2-3	231	4.6	120		< 0.00103		< 0.00514		< 0.00257		< 0.00669		-	< 0.103		< 4.12		1.75	J	1.75	
		4-5	2810	1.5	3250		< 0.00172		< 0.00861		< 0.00431		< 0.0112		-	< 0.110		< 4.42		4.11	J	4.11	
AH-1S-4	7/24/2020	0-1	98.1	1.1	31.1		< 0.00110		< 0.00550		< 0.00275		< 0.00715		-	< 0.111		8.26		28.2		36.5	
		2-3	73.2	1.2	35.9		< 0.00130		< 0.00651		< 0.00325		< 0.00846		-	< 0.115		< 4.60		1.43	J	1.43	
		4-5	109	1.1	25.6		< 0.00107		< 0.00533		< 0.00266		< 0.0069		-	< 0.107		< 4.26		4.00	J	4.00	
AH-1W	3/3/2020	0-1	27	0.0	1.45	BJ	< 0.00103		< 0.00515		< 0.00257		< 0.00669		-	< 0.103		< 4.12		5.88		5.88	
		3-4	56	0.0	9.36	BJ	< 0.00106		< 0.00528		< 0.00264		< 0.00686		-	< 0.106		< 4.22		2.57	BJ	2.57	
T-2	3/3/2020	1-2	400	0.0	131		< 0.00106		< 0.00530		0.000906	J	0.0103		0.0112	0.0254	J	458		445		903	
		3-4	200	-	190		< 0.00112		< 0.00561		< 0.00281		< 0.00730		-	0.0308	J	43.9		35.7		79.6	
		5-6	315	-	125		< 0.00109		< 0.00544		< 0.00272		< 0.00707		-	0.0257	J	63.0		48.8		112	
AH-2E	3/3/2020	0-1	58	0.0	1.77	BJ	< 0.00205		< 0.0103		< 0.00513		< 0.0133		-	< 0.103	J3	< 4.10		1.34	J	1.34	
		3-4	26	-	1.79	BJ	< 0.00120		< 0.00601		< 0.00300		< 0.00781		-	< 0.120	J3	< 4.81		1.44	J	1.44	
AH-2W	3/3/2020	0-1	54	0.0	4.90	BJ	< 0.00101		< 0.00505		< 0.00252		< 0.00656		-	< 0.101	J3	1.79	J	10.6		12.4	
		3-4	480	-	137		< 0.00106		< 0.00530		< 0.00265		< 0.00689		-	< 0.106	J3	< 4.24		4.13	J	4.13	
T-3	3/4/2020	1-2	1929	499	970		0.000746	J	< 0.00533		< 0.00267		< 0.00693		0.000746	2.83	J3	489		270		762	
		3-4	2400	4.8	3100		< 0.00113		< 0.00567		< 0.00283		< 0.00737		-	< 0.113	J3	< 4.53		2.42	J	2.42	
		5-6	1200	2.2	NS		NS	NS	NS	NS	NS	NS	NS	NS	-	NS	NS	NS	NS	NS	NS	NS	-
		6-7	1250	3.0	1140		< 0.00108		< 0.00538		< 0.00269		< 0.00700		-	< 0.108	J3	2.12	J	1.64	J	3.76	
		8-9	1220	-	NS		NS	NS	NS	NS	NS	NS	NS	NS	-	NS	NS	NS	NS	NS	NS	NS	-
AH-3E	3/4/2020	0-1	54	0.0	2.50	BJ	< 0.00109		< 0.00544		< 0.00272		< 0.00707		-	< 0.109		2.49	J	8.59		11.1	
		3-4	120	-	6.75	BJ	< 0.00104		< 0.00522		< 0.00261		< 0.00678		-	< 0.104		< 4.17		5.17		5.17	
AH-3W	7/24/2020	0-1	89.4	2.7	< 20.6		< 0.00114		< 0.00571		< 0.00286		< 0.00743		-	< 0.103		5.95	J	31.0		37.0	
		2-3	158	3.1	40.0		< 0.00102		< 0.00512		< 0.00256		< 0.00666		-	< 0.102		< 12.2		19.8		19.8	

TABLE 1  
 SUMMARY OF ANALYTICAL RESULTS  
 SOIL ASSESSMENT - 1RP-5752  
 CONOCOPHILLIPS  
 MCA 300 FLOWLINE RELEASE  
 LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chloride <sup>1</sup>		BTEX <sup>2</sup>							TPH <sup>3</sup>									
			Chloride	PID	Chloride <sup>1</sup>		Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO <sup>4</sup>		DRO		ORO		Total TPH (GRO+DRO+ORO)
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
T-4	3/4/2020	1-2	2500	547.0	<b>988</b>		< 0.00109		< 0.00543		< 0.00272		< 0.00706		-		< 0.109		295		214		<b>509</b>
		2-4	4750	3.7	-		-		-		-		-		-		-		-		-		-
		5-6	6600	1.3	5780		< 0.00109		< 0.00543		< 0.00272		< 0.00706		-		< 0.109		< 4.35		0.399	J	0.399
		8-9	5500	-	5290		< 0.00108		< 0.00542		< 0.00271		< 0.00704		-		< 0.108		11.6		10.1		21.7
AH-4E	3/3/2020	0-1	36	0.1	2.79	BJ	< 0.00104		< 0.00521		< 0.00261		< 0.00678		-		0.0568	BJ	7.86		29.7		37.6
		3-4	1400	0.0	106		< 0.00105		< 0.00526		< 0.00263		< 0.00683		-		0.0258	J	8.59		30.2		38.8
AH-4W	3/3/2020	0-1	23	0.0	2.64	BJ	< 0.00104		< 0.00521		< 0.00260		< 0.00677		-		0.0422	BJ	7.90		28.0		35.9
		3-4	695	0.0	285		< 0.00106		< 0.00530		< 0.00265		< 0.00689		-		< 0.106		2.16	J	7.64		9.80
T-11	3/10/2020	1-2	1200	0.3	225		< 0.00121		< 0.00603		< 0.00302		< 0.00784		-		0.177		11.8		14.2		26.2
		3-4	1900	0.0	-		-		-		-		-		-		-		-		-		-
		5-6	2400	0.0	-		-		-		-		-		-		-		-		-		-
		7-8	1200	0.0	-		-		-		-		-		-		-		-		-		-
		9-10	1250	0.0	-		-		-		-		-		-		-		-		-		-
		14-15	450	0.0	545		< 0.00105		< 0.00526		< 0.00263		< 0.00683		-		0.0631	BJ	< 4.20		0.557	J	0.620
AH-11E	3/10/2020	0-1	54	0.1	3.39	BJ	< 0.00105		< 0.00524		< 0.00262		< 0.00681		-		< 0.105		8.83		28.8		37.6
		3-4	325	0.0	45.7		< 0.00107		< 0.00535		< 0.00267		< 0.00695		-		< 0.107		2.82	J	16.5		19.3
AH-11W	3/10/2020	0-1	38	0.1	<b>3030</b>		< 0.00107		< 0.00534		< 0.00267		< 0.00695		-		< 0.107		2.46	J	10.8		13.3
		3-4	413	0.0	42.6		< 0.00107	J3	< 0.00537	J3	< 0.00268	J3	< 0.00697	J3	-		< 0.107		< 4.29		5.92		5.92
AH-11W-2	7/8/2020	0-1	106	0.7	< 20.1		< 0.00100		< 0.00501		< 0.00251		< 0.00652		-		< 0.100		6.11		33.6		39.7
		2-3	76	2.1	< 22.8		< 0.00129		< 0.00643		< 0.00322		< 0.00836		-		< 0.114		5.65		23.5		29.2

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
- 1 EPA Method 300.0
- 2 EPA Method 8260B
- 3 EPA Method 8015
- 4 EPA Method 8015D/GRO

**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	NRM1929049253
District RP	1RP-5752
Facility ID	fCOH0815142265
Application ID	pRM1929048645

## Release Notification

### Responsible Party

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

### Location of Release Source

Latitude 32.80380 Longitude -103.76900  
*(NAD 83 in decimal degrees to 5 decimal places)*

Site Name MCA 300 FLOWLINE	Site Type flowline
Date Release Discovered 10/4/19	API# (if applicable)

Unit Letter	Section	Township	Range	County
J	28	17S	32E	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)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 5	Volume Recovered (bbls) 2
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 33	Volume Recovered (bbls) 9
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Flowline rupture south to MCA 2C Header.

Form C-141

State of New Mexico  
Oil Conservation Division

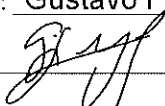
Page 2

Incident ID	NRM1929049253
District RP	1RP-5752
Facility ID	fCOH0815142265
Application ID	pRM1929048645

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? it was more than 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?  Yes, email sent to Bradford Billings, District 1 spill reporting email address and Dylan Rose-Coss	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> 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: <u>Gustavo Fejervary</u> Title: <u>Environmental Coordinator</u> Signature:  Date: <u>10/16/19</u> email: <u>g.fejervary@cop.com</u> Telephone: <u>432/210-7037</u>
<b><u>OCD Only</u></b> Received by: <u>Ramona Marcus</u> Date: <u>10/17/2019</u>

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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> 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.

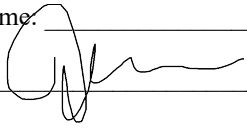
State of New Mexico  
Oil Conservation Division

Page 4

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: \_\_\_\_\_

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-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">RA 12721 POD3</a>	RA	LE		2	3	4	28	17S	32E	615417	3629979	275	115		
<a href="#">RA 12721 POD2</a>	RA	LE		1	1	4	28	17S	32E	615055	3630407	324	124	75	49
<a href="#">RA 12721 POD5</a>	RA	LE		2	4	4	28	17S	32E	615650	3629961	499	130	124	6
<a href="#">RA 12721 POD1</a>	RA	LE		3	2	3	28	17S	32E	614645	3630141	528	125		
<a href="#">RA 12721 POD4</a>	RA	LE		1	1	2	33	17S	32E	615055	3629589	528	140		
<a href="#">RA 12721 POD6</a>	RA	LE		1	2	2	33	17S	32E	615530	3629431	763	130		

Average Depth to Water: **99 feet**  
 Minimum Depth: **75 feet**  
 Maximum Depth: **124 feet**

Record Count: 6

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 615171.79

**Northing (Y):** 3630105





**Radius:** 800

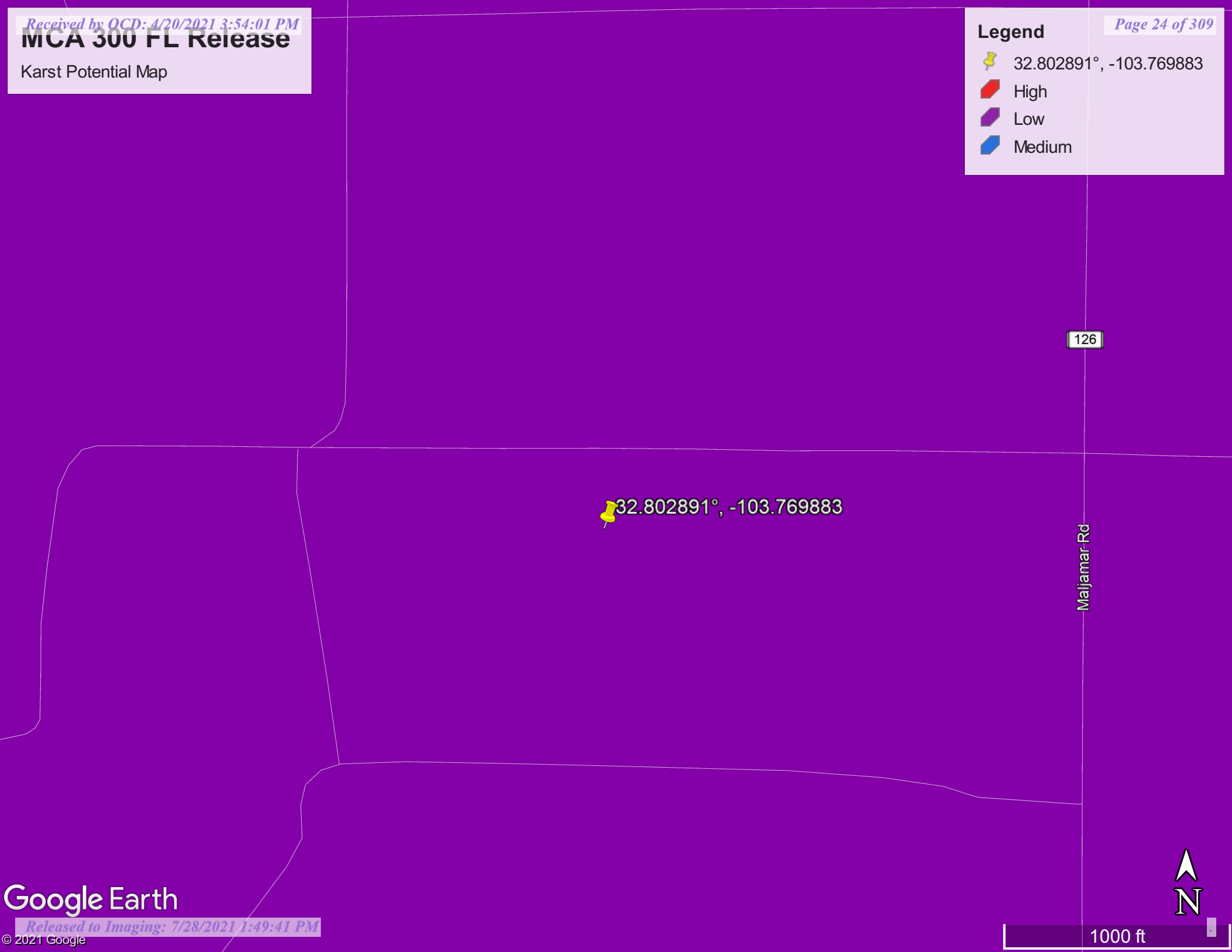
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

# MCA 300 FL Release

Karst Potential Map

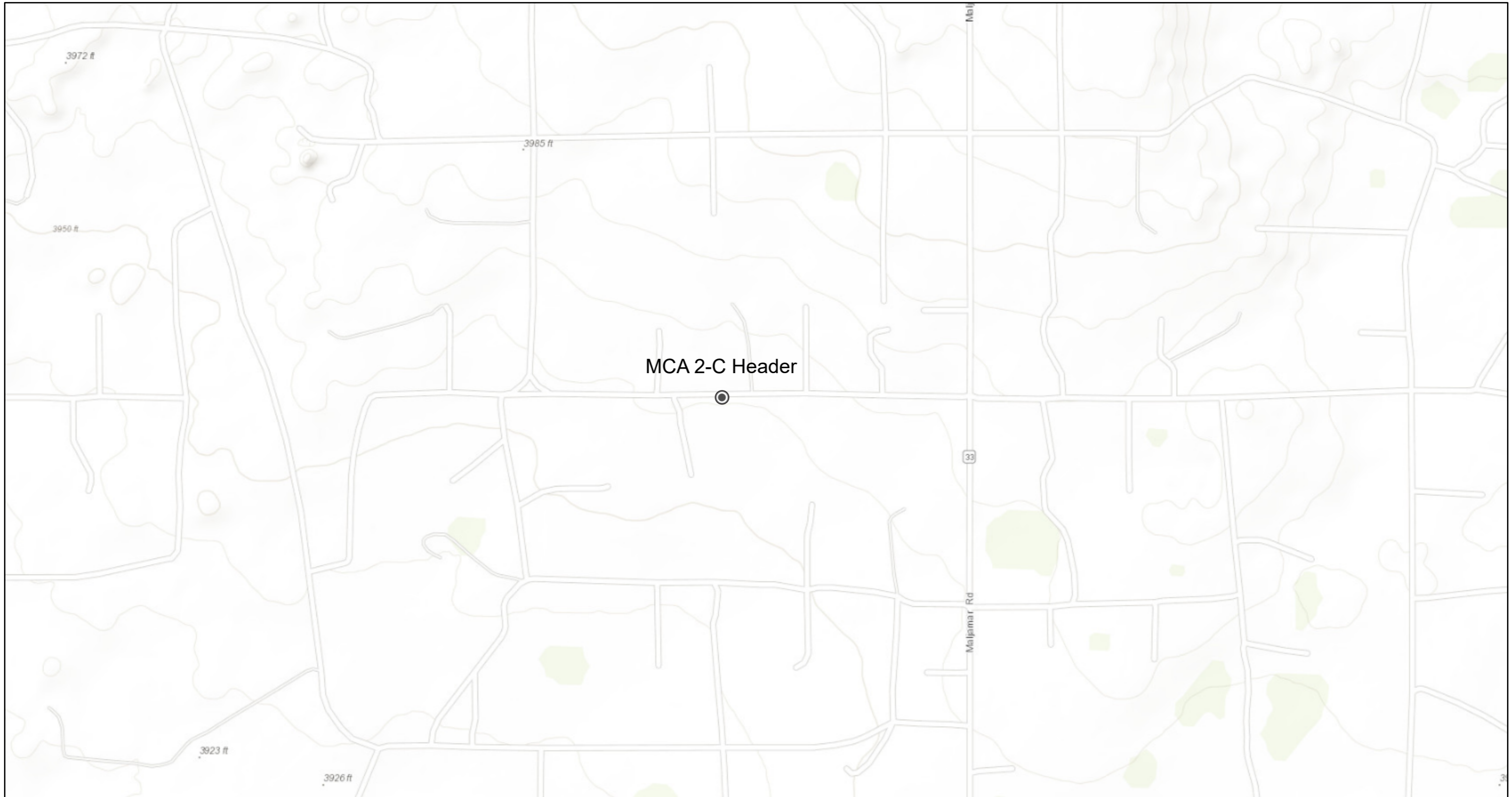
## Legend

-  32.802891°, -103.769883
-  High
-  Low
-  Medium



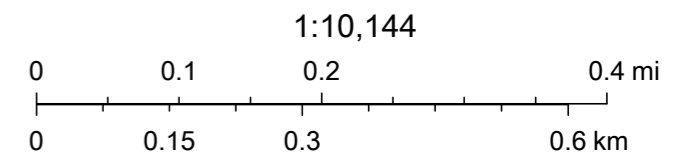


# MCA 2-C Header



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

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



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**



# ANALYTICAL REPORT

March 16, 2020

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

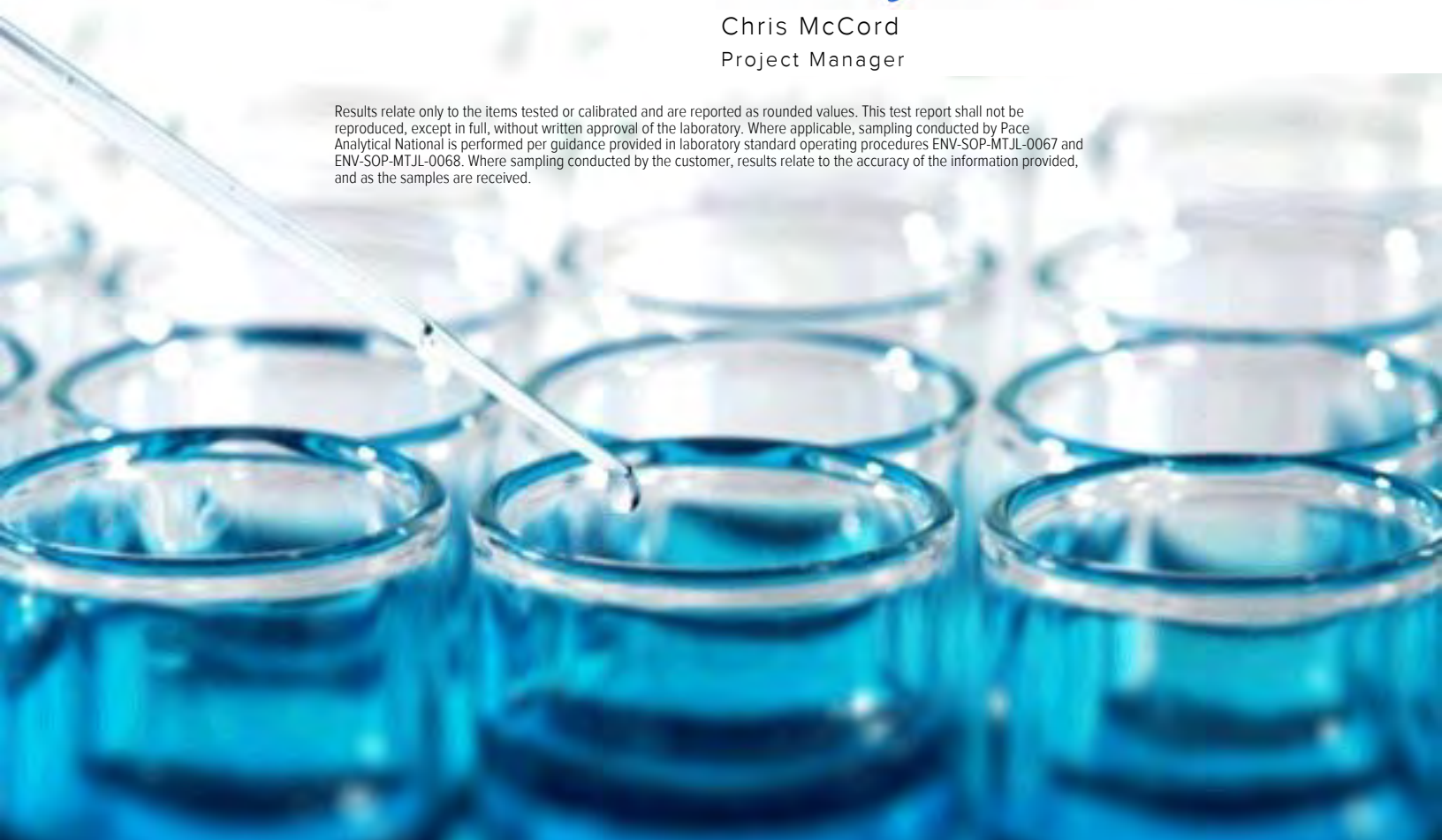
## ConocoPhillips - Tetra Tech

Sample Delivery Group: L1196380  
 Samples Received: 03/06/2020  
 Project Number: 212C-MD-02119  
 Description: COP MCA 2-C Header Release  
 Site: LEA COUNTY, NEW MEXICO  
 Report To: Christian Lull  
 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.



**Cp: Cover Page** 1

**Tc: Table of Contents** 2

**Ss: Sample Summary** 3

**Cn: Case Narrative** 8

**Sr: Sample Results** 9

    T-1 (1'-2') L1196380-01 9

    T-1 (3'-4') L1196380-02 10

    T-1 (5'-6') L1196380-03 11

    AH-1S (0'-1') L1196380-04 12

    AH-1S (3'-4') L1196380-05 13

    AH-1E (0'-1') L1196380-06 14

    AH-1E (3'-4') L1196380-07 15

    AH-1W (0'-1') L1196380-08 16

    AH-1W (3'-4') L1196380-09 17

    T-2 (1'-2') L1196380-10 18

    T-2 (3'-4') L1196380-11 19

    T-2 (5'-6') L1196380-12 20

    AH-2W (0'-1') L1196380-13 21

    AH-2W (3'-4') L1196380-14 22

    AH-2E (0'-1') L1196380-15 23

    AH-2E (3'-4') L1196380-16 24

    T-3 (1'-2') L1196380-17 25

    T-3 (3'-4') L1196380-18 26

    T-3 (6'-7') L1196380-19 27

    T-3 (10'-11') L1196380-20 28

    AH-3E (0'-1') L1196380-21 29

    AH-3E (3'-4') L1196380-22 30

    T-4 (1'-2') L1196380-23 31

    T-4 (5'-6') L1196380-24 32

    T-4 (8'-9') L1196380-25 33

**Qc: Quality Control Summary** 34

    Total Solids by Method 2540 G-2011 34

    Wet Chemistry by Method 300.0 38

    Volatile Organic Compounds (GC) by Method 8015D/GRO 41

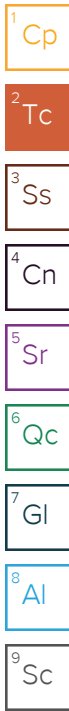
    Volatile Organic Compounds (GC/MS) by Method 8260B 45

    Semi-Volatile Organic Compounds (GC) by Method 8015 49

**Gl: Glossary of Terms** 52

**Al: Accreditations & Locations** 53

**Sc: Sample Chain of Custody** 54



T-1 (1'-2') L1196380-01 Solid

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

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1440589	1	03/10/20 09:35	03/10/20 09:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1441019	1	03/10/20 20:15	03/11/20 01:15	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1440503	1.01	03/06/20 23:59	03/09/20 14:33	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1439823	1	03/06/20 23:59	03/07/20 13:49	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1440342	1	03/09/20 09:07	03/10/20 04:25	KME	Mt. Juliet, TN



T-1 (3'-4') L1196380-02 Solid

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

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1440589	1	03/10/20 09:35	03/10/20 09:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1441019	1	03/10/20 20:15	03/11/20 01:32	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1441449	1.01	03/06/20 23:59	03/10/20 19:36	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1439823	1	03/06/20 23:59	03/07/20 14:08	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1440342	1	03/09/20 09:07	03/10/20 14:34	KME	Mt. Juliet, TN

T-1 (5'-6') L1196380-03 Solid

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

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1440589	1	03/10/20 09:35	03/10/20 09:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1441019	1	03/10/20 20:15	03/11/20 02:26	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1440503	1	03/06/20 23:59	03/09/20 15:14	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1439823	1.14	03/06/20 23:59	03/07/20 14:28	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1440342	1	03/09/20 09:07	03/10/20 04:13	KME	Mt. Juliet, TN

AH-1S (0'-1') L1196380-04 Solid

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

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1440590	1	03/10/20 16:32	03/10/20 16:41	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1441019	1	03/10/20 20:15	03/11/20 03:02	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1440503	1	03/06/20 23:59	03/09/20 15:35	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1439823	1.2	03/06/20 23:59	03/07/20 14:47	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1440342	10	03/09/20 09:07	03/10/20 14:46	KME	Mt. Juliet, TN

AH-1S (3'-4') L1196380-05 Solid

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

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1440590	1	03/10/20 16:32	03/10/20 16:41	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1441019	1	03/10/20 20:15	03/11/20 03:20	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1440503	1	03/06/20 23:59	03/09/20 15:55	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1439823	1	03/06/20 23:59	03/07/20 15:06	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1441726	1	03/10/20 09:16	03/11/20 12:46	KME	Mt. Juliet, TN

AH-1E (0'-1') L1196380-06 Solid

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

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1440590	1	03/10/20 16:32	03/10/20 16:41	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1441019	1	03/10/20 20:15	03/11/20 04:13	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1440503	1	03/06/20 23:59	03/09/20 17:59	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1439823	1	03/06/20 23:59	03/07/20 15:25	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1441726	1	03/10/20 09:16	03/11/20 12:59	KME	Mt. Juliet, TN



AH-1E (3'-4') L1196380-07 Solid

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

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1440590	1	03/10/20 16:32	03/10/20 16:41	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1441019	1	03/10/20 20:15	03/11/20 04:31	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1440503	1	03/07/20 07:44	03/09/20 18:19	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1439944	1	03/07/20 07:44	03/07/20 23:50	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1441726	1	03/10/20 09:16	03/11/20 12:08	KME	Mt. Juliet, TN

AH-1W (0'-1') L1196380-08 Solid

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

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1440590	1	03/10/20 16:32	03/10/20 16:41	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1441019	1	03/10/20 20:15	03/11/20 04:49	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1440503	1	03/07/20 07:44	03/09/20 18:40	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1439944	1	03/07/20 07:44	03/08/20 00:11	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1441726	1	03/10/20 09:16	03/11/20 11:55	KME	Mt. Juliet, TN

AH-1W (3'-4') L1196380-09 Solid

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

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1440590	1	03/10/20 16:32	03/10/20 16:41	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1441019	1	03/10/20 20:15	03/11/20 05:07	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1440503	1	03/07/20 07:44	03/09/20 19:00	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1439944	1	03/07/20 07:44	03/08/20 00:31	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1441726	1	03/10/20 09:16	03/11/20 11:43	KME	Mt. Juliet, TN

T-2 (1'-2') L1196380-10 Solid

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

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1440590	1	03/10/20 16:32	03/10/20 16:41	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1441019	1	03/10/20 20:15	03/11/20 05:25	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1440503	1	03/07/20 07:44	03/09/20 19:21	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1439944	1	03/07/20 07:44	03/08/20 00:51	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1441726	20	03/10/20 09:16	03/11/20 13:11	KME	Mt. Juliet, TN

T-2 (3'-4') L1196380-11 Solid

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

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1440590	1	03/10/20 16:32	03/10/20 16:41	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1441019	1	03/10/20 20:15	03/11/20 05:43	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1440503	1	03/07/20 07:44	03/09/20 19:41	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1439944	1	03/07/20 07:44	03/08/20 01:11	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1441726	1	03/10/20 09:16	03/11/20 12:21	KME	Mt. Juliet, TN

1 Cp  
 2 Tc  
 3 Ss  
 4 Cn

T-2 (5'-6') L1196380-12 Solid

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

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1440590	1	03/10/20 16:32	03/10/20 16:41	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1441019	1	03/10/20 20:15	03/11/20 06:01	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1440503	1	03/07/20 07:44	03/09/20 20:02	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1439944	1	03/07/20 07:44	03/08/20 01:32	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1441726	1	03/10/20 09:16	03/11/20 12:33	KME	Mt. Juliet, TN

5 Sr  
 6 Qc  
 7 Gl  
 8 Al

AH-2W (0'-1') L1196380-13 Solid

Collected by: Adrian  
 Collected date/time: 03/03/20 14:00  
 Received date/time: 03/06/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1440590	1	03/10/20 16:32	03/10/20 16:41	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1441019	1	03/10/20 20:15	03/11/20 06:19	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1440608	1	03/07/20 07:44	03/09/20 21:56	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1439944	1	03/07/20 07:44	03/08/20 01:52	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1440864	1	03/10/20 08:32	03/11/20 19:35	JDG	Mt. Juliet, TN

9 Sc

AH-2W (3'-4') L1196380-14 Solid

Collected by: Adrian  
 Collected date/time: 03/03/20 14:10  
 Received date/time: 03/06/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1440591	1	03/10/20 15:32	03/10/20 15:47	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1441019	1	03/10/20 20:15	03/11/20 06:37	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1440608	1	03/07/20 07:44	03/09/20 22:20	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1439944	1	03/07/20 07:44	03/08/20 03:12	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1440864	1	03/10/20 08:32	03/11/20 16:42	FM	Mt. Juliet, TN

AH-2E (0'-1') L1196380-15 Solid

Collected by: Adrian  
 Collected date/time: 03/03/20 14:20  
 Received date/time: 03/06/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1440591	1	03/10/20 15:32	03/10/20 15:47	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1441019	1	03/10/20 20:15	03/11/20 06:55	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1440608	1	03/07/20 07:44	03/09/20 22:44	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1439944	2	03/07/20 07:44	03/08/20 03:33	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1440864	1	03/10/20 08:32	03/11/20 16:04	FM	Mt. Juliet, TN

AH-2E (3'-4') L1196380-16 Solid

Collected by: Adrian  
 Collected date/time: 03/03/20 14:30  
 Received date/time: 03/06/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1440591	1	03/10/20 15:32	03/10/20 15:47	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1441019	1	03/10/20 20:15	03/11/20 07:48	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1440608	1	03/07/20 07:44	03/09/20 23:08	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1439944	1	03/07/20 07:44	03/08/20 03:53	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1440864	1	03/10/20 08:32	03/11/20 14:47	FM	Mt. Juliet, TN

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

T-3 (1'-2') L1196380-17 Solid

Collected by: Adrian  
 Collected date/time: 03/04/20 10:00  
 Received date/time: 03/06/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1440591	1	03/10/20 15:32	03/10/20 15:47	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1441019	5	03/10/20 20:15	03/11/20 08:06	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1440608	1	03/07/20 07:44	03/09/20 23:31	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1440467	1	03/07/20 07:44	03/09/20 13:34	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1440864	5	03/10/20 08:32	03/11/20 20:25	JDG	Mt. Juliet, TN

T-3 (3'-4') L1196380-18 Solid

Collected by: Adrian  
 Collected date/time: 03/04/20 10:10  
 Received date/time: 03/06/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1440591	1	03/10/20 15:32	03/10/20 15:47	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1441019	10	03/10/20 20:15	03/11/20 08:24	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1440608	1	03/07/20 07:44	03/09/20 23:55	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1439944	1	03/07/20 07:44	03/08/20 04:34	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1440864	1	03/10/20 08:32	03/11/20 16:29	FM	Mt. Juliet, TN

T-3 (6'-7') L1196380-19 Solid

Collected by: Adrian  
 Collected date/time: 03/04/20 10:30  
 Received date/time: 03/06/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1440591	1	03/10/20 15:32	03/10/20 15:47	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1441019	5	03/10/20 20:15	03/11/20 08:42	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1440608	1	03/07/20 07:44	03/10/20 00:19	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1439944	1	03/07/20 07:44	03/08/20 04:54	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1440864	1	03/10/20 08:32	03/11/20 16:16	FM	Mt. Juliet, TN

T-3 (10'-11') L1196380-20 Solid

Collected by: Adrian  
 Collected date/time: 03/04/20 10:50  
 Received date/time: 03/06/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1440591	1	03/10/20 15:32	03/10/20 15:47	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1441019	5	03/10/20 20:15	03/11/20 09:00	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1440814	1	03/07/20 07:44	03/11/20 02:05	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1439944	1	03/07/20 07:44	03/08/20 05:14	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1440864	1	03/10/20 08:32	03/11/20 15:00	FM	Mt. Juliet, TN



AH-3E (0'-1') L1196380-21 Solid

Collected by: Adrian  
 Collected date/time: 03/04/20 11:30  
 Received date/time: 03/06/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1440591	1	03/10/20 15:32	03/10/20 15:47	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1440418	1	03/10/20 09:35	03/10/20 19:16	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1440814	1	03/07/20 07:44	03/11/20 02:29	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1439944	1	03/07/20 07:44	03/08/20 05:34	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1440864	1	03/10/20 08:32	03/12/20 16:24	FM	Mt. Juliet, TN



AH-3E (3'-4') L1196380-22 Solid

Collected by: Adrian  
 Collected date/time: 03/04/20 11:50  
 Received date/time: 03/06/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1440591	1	03/10/20 15:32	03/10/20 15:47	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1440418	1	03/10/20 09:35	03/10/20 19:25	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1440814	1	03/07/20 07:44	03/11/20 02:53	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1440544	1	03/07/20 07:44	03/09/20 16:15	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1440864	1	03/10/20 08:32	03/11/20 16:54	FM	Mt. Juliet, TN

T-4 (1'-2') L1196380-23 Solid

Collected by: Adrian  
 Collected date/time: 03/04/20 13:00  
 Received date/time: 03/06/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1440591	1	03/10/20 15:32	03/10/20 15:47	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1440418	1	03/10/20 09:35	03/10/20 19:35	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1440814	1	03/07/20 07:44	03/11/20 03:17	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1440544	1	03/07/20 07:44	03/09/20 16:35	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1440864	5	03/10/20 08:32	03/11/20 20:13	JDG	Mt. Juliet, TN

T-4 (5'-6') L1196380-24 Solid

Collected by: Adrian  
 Collected date/time: 03/04/20 13:30  
 Received date/time: 03/06/20 08:00


Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1440592	1	03/10/20 15:03	03/10/20 15:12	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1440418	20	03/10/20 09:35	03/10/20 19:44	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1440814	1	03/07/20 07:44	03/11/20 03:41	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1440544	1	03/07/20 07:44	03/09/20 16:56	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1440864	1	03/10/20 08:32	03/11/20 15:13	FM	Mt. Juliet, TN

T-4 (8'-9') L1196380-25 Solid

Collected by: Adrian  
 Collected date/time: 03/04/20 14:00  
 Received date/time: 03/06/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1440592	1	03/10/20 15:03	03/10/20 15:12	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1441166	10	03/10/20 21:00	03/11/20 02:50	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1440814	1	03/07/20 07:44	03/11/20 04:05	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1440544	1	03/07/20 07:44	03/09/20 17:16	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1440864	1	03/10/20 08:32	03/11/20 17:07	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

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

Collected date/time: 03/03/20 11:00

L1196380

**Total Solids by Method 2540 G-2011**

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.9		1	03/10/2020 09:43	<a href="#">WG1440589</a>

1 Cp

2 Tc

**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	243		0.894	11.2	1	03/11/2020 01:15	<a href="#">WG1441019</a>

3 Ss

4 Cn

**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		0.0246	0.114	1.01	03/09/2020 14:33	<a href="#">WG1440503</a>
(S) a,a,a-Trifluorotoluene(FID)	97.5			77.0-120		03/09/2020 14:33	<a href="#">WG1440503</a>

5 Sr

6 Qc

7 Gl

**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		0.000450	0.00112	1	03/07/2020 13:49	<a href="#">WG1439823</a>
Toluene	U		0.00141	0.00562	1	03/07/2020 13:49	<a href="#">WG1439823</a>
Ethylbenzene	U		0.000596	0.00281	1	03/07/2020 13:49	<a href="#">WG1439823</a>
Total Xylenes	U		0.00538	0.00731	1	03/07/2020 13:49	<a href="#">WG1439823</a>
(S) Toluene-d8	106			75.0-131		03/07/2020 13:49	<a href="#">WG1439823</a>
(S) 4-Bromofluorobenzene	96.8			67.0-138		03/07/2020 13:49	<a href="#">WG1439823</a>
(S) 1,2-Dichloroethane-d4	114			70.0-130		03/07/2020 13:49	<a href="#">WG1439823</a>

8 Al

9 Sc

**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	6.05		1.81	4.50	1	03/10/2020 04:25	<a href="#">WG1440342</a>
C28-C40 Oil Range	16.3		0.308	4.50	1	03/10/2020 04:25	<a href="#">WG1440342</a>
(S) o-Terphenyl	60.2			18.0-148		03/10/2020 04:25	<a href="#">WG1440342</a>

Collected date/time: 03/03/20 11:10

L1196380

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.8		1	03/10/2020 09:43	<a href="#">WG1440589</a>

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	130		1.02	12.9	1	03/11/2020 01:32	<a href="#">WG1441019</a>

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		0.0282	0.130	1.01	03/10/2020 19:36	<a href="#">WG1441449</a>
(S) a,a,a-Trifluorotoluene(FID)	98.5			77.0-120		03/10/2020 19:36	<a href="#">WG1441449</a>

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		0.000514	0.00129	1	03/07/2020 14:08	<a href="#">WG1439823</a>
Toluene	U		0.00161	0.00643	1	03/07/2020 14:08	<a href="#">WG1439823</a>
Ethylbenzene	U		0.000682	0.00321	1	03/07/2020 14:08	<a href="#">WG1439823</a>
Total Xylenes	U		0.00615	0.00836	1	03/07/2020 14:08	<a href="#">WG1439823</a>
(S) Toluene-d8	105			75.0-131		03/07/2020 14:08	<a href="#">WG1439823</a>
(S) 4-Bromofluorobenzene	93.8			67.0-138		03/07/2020 14:08	<a href="#">WG1439823</a>
(S) 1,2-Dichloroethane-d4	114			70.0-130		03/07/2020 14:08	<a href="#">WG1439823</a>

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		2.07	5.14	1	03/10/2020 14:34	<a href="#">WG1440342</a>
C28-C40 Oil Range	1.31	J	0.352	5.14	1	03/10/2020 14:34	<a href="#">WG1440342</a>
(S) o-Terphenyl	59.2			18.0-148		03/10/2020 14:34	<a href="#">WG1440342</a>

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

Collected date/time: 03/03/20 11:20

L1196380

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.0		1	03/10/2020 09:43	<a href="#">WG1440589</a>

1 Cp

2 Tc

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	34.9		0.873	11.0	1	03/11/2020 02:26	<a href="#">WG1441019</a>

3 Ss

4 Cn

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		0.0238	0.110	1	03/09/2020 15:14	<a href="#">WG1440503</a>
(S) a,a,a-Trifluorotoluene(FID)	97.5			77.0-120		03/09/2020 15:14	<a href="#">WG1440503</a>

5 Sr

6 Qc

7 Gl

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		0.000501	0.00125	1.14	03/07/2020 14:28	<a href="#">WG1439823</a>
Toluene	U		0.00157	0.00626	1.14	03/07/2020 14:28	<a href="#">WG1439823</a>
Ethylbenzene	U		0.000663	0.00313	1.14	03/07/2020 14:28	<a href="#">WG1439823</a>
Total Xylenes	U		0.00599	0.00814	1.14	03/07/2020 14:28	<a href="#">WG1439823</a>
(S) Toluene-d8	105			75.0-131		03/07/2020 14:28	<a href="#">WG1439823</a>
(S) 4-Bromofluorobenzene	89.6			67.0-138		03/07/2020 14:28	<a href="#">WG1439823</a>
(S) 1,2-Dichloroethane-d4	111			70.0-130		03/07/2020 14:28	<a href="#">WG1439823</a>

8 Al

9 Sc

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	U		1.77	4.39	1	03/10/2020 04:13	<a href="#">WG1440342</a>
C28-C40 Oil Range	4.24	J	0.301	4.39	1	03/10/2020 04:13	<a href="#">WG1440342</a>
(S) o-Terphenyl	69.9			18.0-148		03/10/2020 04:13	<a href="#">WG1440342</a>

Collected date/time: 03/03/20 11:30

L1196380

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.7		1	03/10/2020 16:41	<a href="#">WG1440590</a>

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	11.0	<u>B</u>	0.830	10.4	1	03/11/2020 03:02	<a href="#">WG1441019</a>

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		0.0227	0.104	1	03/09/2020 15:35	<a href="#">WG1440503</a>
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		03/09/2020 15:35	<a href="#">WG1440503</a>

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		0.000501	0.00125	1.2	03/07/2020 14:47	<a href="#">WG1439823</a>
Toluene	U		0.00157	0.00627	1.2	03/07/2020 14:47	<a href="#">WG1439823</a>
Ethylbenzene	U		0.000664	0.00313	1.2	03/07/2020 14:47	<a href="#">WG1439823</a>
Total Xylenes	U		0.00600	0.00815	1.2	03/07/2020 14:47	<a href="#">WG1439823</a>
(S) Toluene-d8	106			75.0-131		03/07/2020 14:47	<a href="#">WG1439823</a>
(S) 4-Bromofluorobenzene	93.3			67.0-138		03/07/2020 14:47	<a href="#">WG1439823</a>
(S) 1,2-Dichloroethane-d4	109			70.0-130		03/07/2020 14:47	<a href="#">WG1439823</a>

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	19.1	<u>J</u>	16.8	41.8	10	03/10/2020 14:46	<a href="#">WG1440342</a>
C28-C40 Oil Range	41.4	<u>J</u>	2.86	41.8	10	03/10/2020 14:46	<a href="#">WG1440342</a>
(S) o-Terphenyl	76.4			18.0-148		03/10/2020 14:46	<a href="#">WG1440342</a>

Sample Narrative:

L1196380-04 WG1440342: Cannot run at lower dilution due to viscosity of extract

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

Collected date/time: 03/03/20 11:50

L1196380

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.0		1	03/10/2020 16:41	<a href="#">WG1440590</a>

1 Cp

2 Tc

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	20.6		0.845	10.6	1	03/11/2020 03:20	<a href="#">WG1441019</a>

3 Ss

4 Cn

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		0.0231	0.106	1	03/09/2020 15:55	<a href="#">WG1440503</a>
(S) a,a,a-Trifluorotoluene(FID)	97.6			77.0-120		03/09/2020 15:55	<a href="#">WG1440503</a>

5 Sr

6 Qc

7 Gl

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		0.000425	0.00106	1	03/07/2020 15:06	<a href="#">WG1439823</a>
Toluene	U		0.00133	0.00532	1	03/07/2020 15:06	<a href="#">WG1439823</a>
Ethylbenzene	U		0.000564	0.00266	1	03/07/2020 15:06	<a href="#">WG1439823</a>
Total Xylenes	U		0.00508	0.00691	1	03/07/2020 15:06	<a href="#">WG1439823</a>
(S) Toluene-d8	107			75.0-131		03/07/2020 15:06	<a href="#">WG1439823</a>
(S) 4-Bromofluorobenzene	91.4			67.0-138		03/07/2020 15:06	<a href="#">WG1439823</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		03/07/2020 15:06	<a href="#">WG1439823</a>

8 Al

9 Sc

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	67.8		1.71	4.25	1	03/11/2020 12:46	<a href="#">WG1441726</a>
C28-C40 Oil Range	74.6		0.291	4.25	1	03/11/2020 12:46	<a href="#">WG1441726</a>
(S) o-Terphenyl	52.3			18.0-148		03/11/2020 12:46	<a href="#">WG1441726</a>

Collected date/time: 03/03/20 12:00

L1196380

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.9		1	03/10/2020 16:41	<a href="#">WG1440590</a>

1 Cp

2 Tc

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	8.57	<u>BJ</u>	0.812	10.2	1	03/11/2020 04:13	<a href="#">WG1441019</a>

3 Ss

4 Cn

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		0.0222	0.102	1	03/09/2020 17:59	<a href="#">WG1440503</a>
(S) a,a,a-Trifluorotoluene(FID)	96.1			77.0-120		03/09/2020 17:59	<a href="#">WG1440503</a>

5 Sr

6 Qc

7 Gl

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		0.000408	0.00102	1	03/07/2020 15:25	<a href="#">WG1439823</a>
Toluene	U		0.00128	0.00510	1	03/07/2020 15:25	<a href="#">WG1439823</a>
Ethylbenzene	U		0.000541	0.00255	1	03/07/2020 15:25	<a href="#">WG1439823</a>
Total Xylenes	U		0.00488	0.00664	1	03/07/2020 15:25	<a href="#">WG1439823</a>
(S) Toluene-d8	108			75.0-131		03/07/2020 15:25	<a href="#">WG1439823</a>
(S) 4-Bromofluorobenzene	97.5			67.0-138		03/07/2020 15:25	<a href="#">WG1439823</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		03/07/2020 15:25	<a href="#">WG1439823</a>

8 Al

9 Sc

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	16.0		1.64	4.08	1	03/11/2020 12:59	<a href="#">WG1441726</a>
C28-C40 Oil Range	42.3		0.280	4.08	1	03/11/2020 12:59	<a href="#">WG1441726</a>
(S) o-Terphenyl	44.3			18.0-148		03/11/2020 12:59	<a href="#">WG1441726</a>



Collected date/time: 03/03/20 12:10

L1196380

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.9		1	03/10/2020 16:41	<a href="#">WG1440590</a>

1 Cp

2 Tc

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	51.6		0.865	10.9	1	03/11/2020 04:31	<a href="#">WG1441019</a>

3 Ss

4 Cn

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		0.0236	0.109	1	03/09/2020 18:19	<a href="#">WG1440503</a>
(S) a,a,a-Trifluorotoluene(FID)	97.1			77.0-120		03/09/2020 18:19	<a href="#">WG1440503</a>

5 Sr

6 Qc

7 Gl

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		0.000435	0.00109	1	03/07/2020 23:50	<a href="#">WG1439944</a>
Toluene	U		0.00136	0.00544	1	03/07/2020 23:50	<a href="#">WG1439944</a>
Ethylbenzene	U		0.000577	0.00272	1	03/07/2020 23:50	<a href="#">WG1439944</a>
Total Xylenes	U		0.00520	0.00707	1	03/07/2020 23:50	<a href="#">WG1439944</a>
(S) Toluene-d8	102			75.0-131		03/07/2020 23:50	<a href="#">WG1439944</a>
(S) 4-Bromofluorobenzene	102			67.0-138		03/07/2020 23:50	<a href="#">WG1439944</a>
(S) 1,2-Dichloroethane-d4	88.6			70.0-130		03/07/2020 23:50	<a href="#">WG1439944</a>

8 Al

9 Sc

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	5.27		1.75	4.35	1	03/11/2020 12:08	<a href="#">WG1441726</a>
C28-C40 Oil Range	19.8		0.298	4.35	1	03/11/2020 12:08	<a href="#">WG1441726</a>
(S) o-Terphenyl	63.6			18.0-148		03/11/2020 12:08	<a href="#">WG1441726</a>

Collected date/time: 03/03/20 12:20

L1196380

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.1		1	03/10/2020 16:41	<a href="#">WG1440590</a>

1 Cp

2 Tc

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	1.45	<u>BJ</u>	0.819	10.3	1	03/11/2020 04:49	<a href="#">WG1441019</a>

3 Ss

4 Cn

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		0.0224	0.103	1	03/09/2020 18:40	<a href="#">WG1440503</a>
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		03/09/2020 18:40	<a href="#">WG1440503</a>

5 Sr

6 Qc

7 Gl

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		0.000412	0.00103	1	03/08/2020 00:11	<a href="#">WG1439944</a>
Toluene	U		0.00129	0.00515	1	03/08/2020 00:11	<a href="#">WG1439944</a>
Ethylbenzene	U		0.000546	0.00257	1	03/08/2020 00:11	<a href="#">WG1439944</a>
Total Xylenes	U		0.00492	0.00669	1	03/08/2020 00:11	<a href="#">WG1439944</a>
(S) Toluene-d8	103			75.0-131		03/08/2020 00:11	<a href="#">WG1439944</a>
(S) 4-Bromofluorobenzene	104			67.0-138		03/08/2020 00:11	<a href="#">WG1439944</a>
(S) 1,2-Dichloroethane-d4	88.9			70.0-130		03/08/2020 00:11	<a href="#">WG1439944</a>

8 Al

9 Sc

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	U		1.66	4.12	1	03/11/2020 11:55	<a href="#">WG1441726</a>
C28-C40 Oil Range	5.88		0.282	4.12	1	03/11/2020 11:55	<a href="#">WG1441726</a>
(S) o-Terphenyl	66.2			18.0-148		03/11/2020 11:55	<a href="#">WG1441726</a>

Collected date/time: 03/03/20 13:00

L1196380

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.8		1	03/10/2020 16:41	<a href="#">WG1440590</a>

1 Cp

2 Tc

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	9.36	<u>BJ</u>	0.839	10.6	1	03/11/2020 05:07	<a href="#">WG1441019</a>

3 Ss

4 Cn

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		0.0229	0.106	1	03/09/2020 19:00	<a href="#">WG1440503</a>
(S) a,a,a-Trifluorotoluene(FID)	96.7			77.0-120		03/09/2020 19:00	<a href="#">WG1440503</a>

5 Sr

6 Qc

7 Gl

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		0.000422	0.00106	1	03/08/2020 00:31	<a href="#">WG1439944</a>
Toluene	U		0.00132	0.00528	1	03/08/2020 00:31	<a href="#">WG1439944</a>
Ethylbenzene	U		0.000559	0.00264	1	03/08/2020 00:31	<a href="#">WG1439944</a>
Total Xylenes	U		0.00504	0.00686	1	03/08/2020 00:31	<a href="#">WG1439944</a>
(S) Toluene-d8	103			75.0-131		03/08/2020 00:31	<a href="#">WG1439944</a>
(S) 4-Bromofluorobenzene	103			67.0-138		03/08/2020 00:31	<a href="#">WG1439944</a>
(S) 1,2-Dichloroethane-d4	87.6			70.0-130		03/08/2020 00:31	<a href="#">WG1439944</a>

8 Al

9 Sc

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	U		1.70	4.22	1	03/11/2020 11:43	<a href="#">WG1441726</a>
C28-C40 Oil Range	2.57	<u>BJ</u>	0.289	4.22	1	03/11/2020 11:43	<a href="#">WG1441726</a>
(S) o-Terphenyl	67.6			18.0-148		03/11/2020 11:43	<a href="#">WG1441726</a>

Collected date/time: 03/03/20 13:10

L1196380

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.4		1	03/10/2020 16:41	<a href="#">WG1440590</a>

1 Cp

2 Tc

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	131		0.842	10.6	1	03/11/2020 05:25	<a href="#">WG1441019</a>

3 Ss

4 Cn

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	0.0254	J	0.0230	0.106	1	03/09/2020 19:21	<a href="#">WG1440503</a>
(S) a,a,a-Trifluorotoluene(FID)	96.3			77.0-120		03/09/2020 19:21	<a href="#">WG1440503</a>

5 Sr

6 Qc

7 Gl

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		0.000424	0.00106	1	03/08/2020 00:51	<a href="#">WG1439944</a>
Toluene	U		0.00132	0.00530	1	03/08/2020 00:51	<a href="#">WG1439944</a>
Ethylbenzene	0.000906	J	0.000561	0.00265	1	03/08/2020 00:51	<a href="#">WG1439944</a>
Total Xylenes	0.0103		0.00506	0.00688	1	03/08/2020 00:51	<a href="#">WG1439944</a>
(S) Toluene-d8	101			75.0-131		03/08/2020 00:51	<a href="#">WG1439944</a>
(S) 4-Bromofluorobenzene	103			67.0-138		03/08/2020 00:51	<a href="#">WG1439944</a>
(S) 1,2-Dichloroethane-d4	88.1			70.0-130		03/08/2020 00:51	<a href="#">WG1439944</a>

8 Al

9 Sc

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	458		34.1	84.7	20	03/11/2020 13:11	<a href="#">WG1441726</a>
C28-C40 Oil Range	445		5.80	84.7	20	03/11/2020 13:11	<a href="#">WG1441726</a>
(S) o-Terphenyl	109	J7		18.0-148		03/11/2020 13:11	<a href="#">WG1441726</a>

Collected date/time: 03/03/20 13:20

L1196380

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.1		1	03/10/2020 16:41	<a href="#">WG1440590</a>

1 Cp

2 Tc

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	190		0.893	11.2	1	03/11/2020 05:43	<a href="#">WG1441019</a>

3 Ss

4 Cn

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	0.0308	J	0.0244	0.112	1	03/09/2020 19:41	<a href="#">WG1440503</a>
(S) a,a,a-Trifluorotoluene(FID)	95.8			77.0-120		03/09/2020 19:41	<a href="#">WG1440503</a>

5 Sr

6 Qc

7 Gl

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		0.000449	0.00112	1	03/08/2020 01:11	<a href="#">WG1439944</a>
Toluene	U		0.00140	0.00561	1	03/08/2020 01:11	<a href="#">WG1439944</a>
Ethylbenzene	U		0.000595	0.00281	1	03/08/2020 01:11	<a href="#">WG1439944</a>
Total Xylenes	U		0.00537	0.00730	1	03/08/2020 01:11	<a href="#">WG1439944</a>
(S) Toluene-d8	103			75.0-131		03/08/2020 01:11	<a href="#">WG1439944</a>
(S) 4-Bromofluorobenzene	104			67.0-138		03/08/2020 01:11	<a href="#">WG1439944</a>
(S) 1,2-Dichloroethane-d4	88.8			70.0-130		03/08/2020 01:11	<a href="#">WG1439944</a>

8 Al

9 Sc

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	43.9		1.81	4.49	1	03/11/2020 12:21	<a href="#">WG1441726</a>
C28-C40 Oil Range	35.7		0.308	4.49	1	03/11/2020 12:21	<a href="#">WG1441726</a>
(S) o-Terphenyl	47.1			18.0-148		03/11/2020 12:21	<a href="#">WG1441726</a>

Collected date/time: 03/03/20 13:30

L1196380

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.9		1	03/10/2020 16:41	<a href="#">WG1440590</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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	125		0.865	10.9	1	03/11/2020 06:01	<a href="#">WG1441019</a>

- 5 Sr
- 6 Qc
- 7 Gl

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	0.0257	J	0.0236	0.109	1	03/09/2020 20:02	<a href="#">WG1440503</a>
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		03/09/2020 20:02	<a href="#">WG1440503</a>

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		0.000435	0.00109	1	03/08/2020 01:32	<a href="#">WG1439944</a>
Toluene	U		0.00136	0.00544	1	03/08/2020 01:32	<a href="#">WG1439944</a>
Ethylbenzene	U		0.000577	0.00272	1	03/08/2020 01:32	<a href="#">WG1439944</a>
Total Xylenes	U		0.00520	0.00707	1	03/08/2020 01:32	<a href="#">WG1439944</a>
(S) Toluene-d8	103			75.0-131		03/08/2020 01:32	<a href="#">WG1439944</a>
(S) 4-Bromofluorobenzene	106			67.0-138		03/08/2020 01:32	<a href="#">WG1439944</a>
(S) 1,2-Dichloroethane-d4	88.4			70.0-130		03/08/2020 01:32	<a href="#">WG1439944</a>

- 8 Al
- 9 Sc

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	63.0		1.75	4.35	1	03/11/2020 12:33	<a href="#">WG1441726</a>
C28-C40 Oil Range	48.8		0.298	4.35	1	03/11/2020 12:33	<a href="#">WG1441726</a>
(S) o-Terphenyl	49.5			18.0-148		03/11/2020 12:33	<a href="#">WG1441726</a>

Collected date/time: 03/03/20 14:00

L1196380

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.1		1	03/10/2020 16:41	<a href="#">WG1440590</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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	4.90	<u>B</u> <u>J</u>	0.802	10.1	1	03/11/2020 06:19	<a href="#">WG1441019</a>

- 5 Sr
- 6 Qc
- 7 Gl

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	<u>J</u> <u>3</u>	0.0219	0.101	1	03/09/2020 21:56	<a href="#">WG1440608</a>
(S) a,a,a-Trifluorotoluene(FID)	93.8			77.0-120		03/09/2020 21:56	<a href="#">WG1440608</a>

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		0.000404	0.00101	1	03/08/2020 01:52	<a href="#">WG1439944</a>
Toluene	U		0.00126	0.00505	1	03/08/2020 01:52	<a href="#">WG1439944</a>
Ethylbenzene	U		0.000535	0.00252	1	03/08/2020 01:52	<a href="#">WG1439944</a>
Total Xylenes	U		0.00482	0.00656	1	03/08/2020 01:52	<a href="#">WG1439944</a>
(S) Toluene-d8	102			75.0-131		03/08/2020 01:52	<a href="#">WG1439944</a>
(S) 4-Bromofluorobenzene	104			67.0-138		03/08/2020 01:52	<a href="#">WG1439944</a>
(S) 1,2-Dichloroethane-d4	89.2			70.0-130		03/08/2020 01:52	<a href="#">WG1439944</a>

- 8 Al
- 9 Sc

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	1.79	<u>J</u>	1.62	4.04	1	03/11/2020 19:35	<a href="#">WG1440864</a>
C28-C40 Oil Range	10.6		0.277	4.04	1	03/11/2020 19:35	<a href="#">WG1440864</a>
(S) o-Terphenyl	67.9			18.0-148		03/11/2020 19:35	<a href="#">WG1440864</a>

Collected date/time: 03/03/20 14:10

L1196380

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.3		1	03/10/2020 15:47	<a href="#">WG1440591</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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	137		0.843	10.6	1	03/11/2020 06:37	<a href="#">WG1441019</a>

- 5 Sr
- 6 Qc
- 7 Gl

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	<u>J3</u>	0.0230	0.106	1	03/09/2020 22:20	<a href="#">WG1440608</a>
(S) a,a,a-Trifluorotoluene(FID)	93.3			77.0-120		03/09/2020 22:20	<a href="#">WG1440608</a>

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		0.000424	0.00106	1	03/08/2020 03:12	<a href="#">WG1439944</a>
Toluene	U		0.00133	0.00530	1	03/08/2020 03:12	<a href="#">WG1439944</a>
Ethylbenzene	U		0.000562	0.00265	1	03/08/2020 03:12	<a href="#">WG1439944</a>
Total Xylenes	U		0.00507	0.00689	1	03/08/2020 03:12	<a href="#">WG1439944</a>
(S) Toluene-d8	102			75.0-131		03/08/2020 03:12	<a href="#">WG1439944</a>
(S) 4-Bromofluorobenzene	104			67.0-138		03/08/2020 03:12	<a href="#">WG1439944</a>
(S) 1,2-Dichloroethane-d4	88.5			70.0-130		03/08/2020 03:12	<a href="#">WG1439944</a>

- 8 Al
- 9 Sc

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	U		1.71	4.24	1	03/11/2020 16:42	<a href="#">WG1440864</a>
C28-C40 Oil Range	4.13	<u>J</u>	0.290	4.24	1	03/11/2020 16:42	<a href="#">WG1440864</a>
(S) o-Terphenyl	53.9			18.0-148		03/11/2020 16:42	<a href="#">WG1440864</a>



Collected date/time: 03/03/20 14:20

L1196380

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.5		1	03/10/2020 15:47	<a href="#">WG1440591</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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	1.77	<u>B</u> <u>J</u>	0.815	10.3	1	03/11/2020 06:55	<a href="#">WG1441019</a>

- 5 Sr
- 6 Qc
- 7 Gl

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	<u>J</u> <u>3</u>	0.0222	0.103	1	03/09/2020 22:44	<a href="#">WG1440608</a>
(S) a,a,a-Trifluorotoluene(FID)	94.0			77.0-120		03/09/2020 22:44	<a href="#">WG1440608</a>

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		0.000820	0.00205	2	03/08/2020 03:33	<a href="#">WG1439944</a>
Toluene	U		0.00256	0.0103	2	03/08/2020 03:33	<a href="#">WG1439944</a>
Ethylbenzene	U		0.00109	0.00513	2	03/08/2020 03:33	<a href="#">WG1439944</a>
Total Xylenes	U		0.00980	0.0133	2	03/08/2020 03:33	<a href="#">WG1439944</a>
(S) Toluene-d8	102			75.0-131		03/08/2020 03:33	<a href="#">WG1439944</a>
(S) 4-Bromofluorobenzene	105			67.0-138		03/08/2020 03:33	<a href="#">WG1439944</a>
(S) 1,2-Dichloroethane-d4	88.1			70.0-130		03/08/2020 03:33	<a href="#">WG1439944</a>

- 8 Al
- 9 Sc

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	U		1.65	4.10	1	03/11/2020 16:04	<a href="#">WG1440864</a>
C28-C40 Oil Range	1.34	<u>J</u>	0.281	4.10	1	03/11/2020 16:04	<a href="#">WG1440864</a>
(S) o-Terphenyl	44.2			18.0-148		03/11/2020 16:04	<a href="#">WG1440864</a>

Collected date/time: 03/03/20 14:30

L1196380

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.2		1	03/10/2020 15:47	<a href="#">WG1440591</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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	1.79	<u>B</u> <u>J</u>	0.955	12.0	1	03/11/2020 07:48	<a href="#">WG1441019</a>

- 5 Sr
- 6 Qc
- 7 Gl

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	<u>J</u> <u>3</u>	0.0261	0.120	1	03/09/2020 23:08	<a href="#">WG1440608</a>
(S) a,a,a-Trifluorotoluene(FID)	95.0			77.0-120		03/09/2020 23:08	<a href="#">WG1440608</a>

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		0.000481	0.00120	1	03/08/2020 03:53	<a href="#">WG1439944</a>
Toluene	U		0.00150	0.00601	1	03/08/2020 03:53	<a href="#">WG1439944</a>
Ethylbenzene	U		0.000637	0.00300	1	03/08/2020 03:53	<a href="#">WG1439944</a>
Total Xylenes	U		0.00574	0.00781	1	03/08/2020 03:53	<a href="#">WG1439944</a>
(S) Toluene-d8	102			75.0-131		03/08/2020 03:53	<a href="#">WG1439944</a>
(S) 4-Bromofluorobenzene	106			67.0-138		03/08/2020 03:53	<a href="#">WG1439944</a>
(S) 1,2-Dichloroethane-d4	88.8			70.0-130		03/08/2020 03:53	<a href="#">WG1439944</a>

- 8 Al
- 9 Sc

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	U		1.93	4.81	1	03/11/2020 14:47	<a href="#">WG1440864</a>
C28-C40 Oil Range	1.44	<u>J</u>	0.329	4.81	1	03/11/2020 14:47	<a href="#">WG1440864</a>
(S) o-Terphenyl	43.8			18.0-148		03/11/2020 14:47	<a href="#">WG1440864</a>

Collected date/time: 03/04/20 10:00

L1196380

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.8		1	03/10/2020 15:47	<a href="#">WG1440591</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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	970		4.24	53.3	5	03/11/2020 08:06	<a href="#">WG1441019</a>

- 5 Sr
- 6 Qc
- 7 Gl

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	2.83	J3	0.0231	0.107	1	03/09/2020 23:31	<a href="#">WG1440608</a>
(S) a,a,a-Trifluorotoluene(FID)	93.0			77.0-120		03/09/2020 23:31	<a href="#">WG1440608</a>

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	0.000746	J	0.000427	0.00107	1	03/09/2020 13:34	<a href="#">WG1440467</a>
Toluene	U		0.00133	0.00533	1	03/09/2020 13:34	<a href="#">WG1440467</a>
Ethylbenzene	U		0.000565	0.00267	1	03/09/2020 13:34	<a href="#">WG1440467</a>
Total Xylenes	U		0.00510	0.00693	1	03/09/2020 13:34	<a href="#">WG1440467</a>
(S) Toluene-d8	106			75.0-131		03/09/2020 13:34	<a href="#">WG1440467</a>
(S) 4-Bromofluorobenzene	102			67.0-138		03/09/2020 13:34	<a href="#">WG1440467</a>
(S) 1,2-Dichloroethane-d4	96.5			70.0-130		03/09/2020 13:34	<a href="#">WG1440467</a>

- 8 Al
- 9 Sc

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	489		8.58	21.3	5	03/11/2020 20:25	<a href="#">WG1440864</a>
C28-C40 Oil Range	270		1.46	21.3	5	03/11/2020 20:25	<a href="#">WG1440864</a>
(S) o-Terphenyl	108			18.0-148		03/11/2020 20:25	<a href="#">WG1440864</a>

Collected date/time: 03/04/20 10:10

L1196380

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.3		1	03/10/2020 15:47	<a href="#">WG1440591</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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	3100		9.01	113	10	03/11/2020 08:24	<a href="#">WG1441019</a>

- 5 Sr
- 6 Qc
- 7 Gl

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	<u>J3</u>	0.0246	0.113	1	03/09/2020 23:55	<a href="#">WG1440608</a>
(S) a,a,a-Trifluorotoluene(FID)	99.3			77.0-120		03/09/2020 23:55	<a href="#">WG1440608</a>

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		0.000453	0.00113	1	03/08/2020 04:34	<a href="#">WG1439944</a>
Toluene	U		0.00142	0.00567	1	03/08/2020 04:34	<a href="#">WG1439944</a>
Ethylbenzene	U		0.000601	0.00283	1	03/08/2020 04:34	<a href="#">WG1439944</a>
Total Xylenes	U		0.00542	0.00737	1	03/08/2020 04:34	<a href="#">WG1439944</a>
(S) Toluene-d8	103			75.0-131		03/08/2020 04:34	<a href="#">WG1439944</a>
(S) 4-Bromofluorobenzene	105			67.0-138		03/08/2020 04:34	<a href="#">WG1439944</a>
(S) 1,2-Dichloroethane-d4	88.9			70.0-130		03/08/2020 04:34	<a href="#">WG1439944</a>

- 8 Al
- 9 Sc

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	U		1.82	4.53	1	03/11/2020 16:29	<a href="#">WG1440864</a>
C28-C40 Oil Range	2.42	<u>J</u>	0.310	4.53	1	03/11/2020 16:29	<a href="#">WG1440864</a>
(S) o-Terphenyl	62.7			18.0-148		03/11/2020 16:29	<a href="#">WG1440864</a>

Collected date/time: 03/04/20 10:30

L1196380

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.9		1	03/10/2020 15:47	<a href="#">WG1440591</a>

1 Cp

2 Tc

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	1140		4.29	53.8	5	03/11/2020 08:42	<a href="#">WG1441019</a>

3 Ss

4 Cn

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	<u>J3</u>	0.0234	0.108	1	03/10/2020 00:19	<a href="#">WG1440608</a>
(S) a,a,a-Trifluorotoluene(FID)	95.9			77.0-120		03/10/2020 00:19	<a href="#">WG1440608</a>

5 Sr

6 Qc

7 Gl

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		0.000431	0.00108	1	03/08/2020 04:54	<a href="#">WG1439944</a>
Toluene	U		0.00135	0.00538	1	03/08/2020 04:54	<a href="#">WG1439944</a>
Ethylbenzene	U		0.000571	0.00269	1	03/08/2020 04:54	<a href="#">WG1439944</a>
Total Xylenes	U		0.00515	0.00700	1	03/08/2020 04:54	<a href="#">WG1439944</a>
(S) Toluene-d8	103			75.0-131		03/08/2020 04:54	<a href="#">WG1439944</a>
(S) 4-Bromofluorobenzene	106			67.0-138		03/08/2020 04:54	<a href="#">WG1439944</a>
(S) 1,2-Dichloroethane-d4	89.4			70.0-130		03/08/2020 04:54	<a href="#">WG1439944</a>

8 Al

9 Sc

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	2.12	<u>J</u>	1.73	4.31	1	03/11/2020 16:16	<a href="#">WG1440864</a>
C28-C40 Oil Range	1.64	<u>J</u>	0.295	4.31	1	03/11/2020 16:16	<a href="#">WG1440864</a>
(S) o-Terphenyl	64.1			18.0-148		03/11/2020 16:16	<a href="#">WG1440864</a>

Collected date/time: 03/04/20 10:50

L1196380

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.0		1	03/10/2020 15:47	<a href="#">WG1440591</a>

1 Cp

2 Tc

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	879		4.24	53.2	5	03/11/2020 09:00	<a href="#">WG1441019</a>

3 Ss

4 Cn

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		0.0231	0.106	1	03/11/2020 02:05	<a href="#">WG1440814</a>
(S) a,a,a-Trifluorotoluene(FID)	96.7			77.0-120		03/11/2020 02:05	<a href="#">WG1440814</a>

5 Sr

6 Qc

7 Gl

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		0.000426	0.00106	1	03/08/2020 05:14	<a href="#">WG1439944</a>
Toluene	U		0.00133	0.00532	1	03/08/2020 05:14	<a href="#">WG1439944</a>
Ethylbenzene	U		0.000564	0.00266	1	03/08/2020 05:14	<a href="#">WG1439944</a>
Total Xylenes	U		0.00509	0.00692	1	03/08/2020 05:14	<a href="#">WG1439944</a>
(S) Toluene-d8	102			75.0-131		03/08/2020 05:14	<a href="#">WG1439944</a>
(S) 4-Bromofluorobenzene	105			67.0-138		03/08/2020 05:14	<a href="#">WG1439944</a>
(S) 1,2-Dichloroethane-d4	89.8			70.0-130		03/08/2020 05:14	<a href="#">WG1439944</a>

8 Al

9 Sc

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	U		1.71	4.26	1	03/11/2020 15:00	<a href="#">WG1440864</a>
C28-C40 Oil Range	0.543	J	0.292	4.26	1	03/11/2020 15:00	<a href="#">WG1440864</a>
(S) o-Terphenyl	54.8			18.0-148		03/11/2020 15:00	<a href="#">WG1440864</a>

Collected date/time: 03/04/20 11:30

L1196380

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.9		1	03/10/2020 15:47	<a href="#">WG1440591</a>

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	2.50	<u>B</u> <u>J</u>	0.865	10.9	1	03/10/2020 19:16	<a href="#">WG1440418</a>

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		0.0236	0.109	1	03/11/2020 02:29	<a href="#">WG1440814</a>
(S) a,a,a-Trifluorotoluene(FID)	98.9			77.0-120		03/11/2020 02:29	<a href="#">WG1440814</a>

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		0.000435	0.00109	1	03/08/2020 05:34	<a href="#">WG1439944</a>
Toluene	U		0.00136	0.00544	1	03/08/2020 05:34	<a href="#">WG1439944</a>
Ethylbenzene	U		0.000577	0.00272	1	03/08/2020 05:34	<a href="#">WG1439944</a>
Total Xylenes	U		0.00520	0.00707	1	03/08/2020 05:34	<a href="#">WG1439944</a>
(S) Toluene-d8	103			75.0-131		03/08/2020 05:34	<a href="#">WG1439944</a>
(S) 4-Bromofluorobenzene	105			67.0-138		03/08/2020 05:34	<a href="#">WG1439944</a>
(S) 1,2-Dichloroethane-d4	89.1			70.0-130		03/08/2020 05:34	<a href="#">WG1439944</a>

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	2.49	<u>J</u>	1.75	4.35	1	03/12/2020 16:24	<a href="#">WG1440864</a>
C28-C40 Oil Range	8.59		0.298	4.35	1	03/12/2020 16:24	<a href="#">WG1440864</a>
(S) o-Terphenyl	54.8			18.0-148		03/12/2020 16:24	<a href="#">WG1440864</a>

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

Collected date/time: 03/04/20 11:50

L1196380

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.9		1	03/10/2020 15:47	<a href="#">WG1440591</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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	6.75	<b>B J</b>	0.829	10.4	1	03/10/2020 19:25	<a href="#">WG1440418</a>

- 5 Sr
- 6 Qc
- 7 Gl

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		0.0226	0.104	1	03/11/2020 02:53	<a href="#">WG1440814</a>
(S) a,a,a-Trifluorotoluene(FID)	100			77.0-120		03/11/2020 02:53	<a href="#">WG1440814</a>

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		0.000417	0.00104	1	03/09/2020 16:15	<a href="#">WG1440544</a>
Toluene	U		0.00130	0.00522	1	03/09/2020 16:15	<a href="#">WG1440544</a>
Ethylbenzene	U		0.000553	0.00261	1	03/09/2020 16:15	<a href="#">WG1440544</a>
Total Xylenes	U		0.00499	0.00678	1	03/09/2020 16:15	<a href="#">WG1440544</a>
(S) Toluene-d8	102			75.0-131		03/09/2020 16:15	<a href="#">WG1440544</a>
(S) 4-Bromofluorobenzene	102			67.0-138		03/09/2020 16:15	<a href="#">WG1440544</a>
(S) 1,2-Dichloroethane-d4	86.9			70.0-130		03/09/2020 16:15	<a href="#">WG1440544</a>

- 8 Al
- 9 Sc

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	U		1.68	4.17	1	03/11/2020 16:54	<a href="#">WG1440864</a>
C28-C40 Oil Range	5.17		0.286	4.17	1	03/11/2020 16:54	<a href="#">WG1440864</a>
(S) o-Terphenyl	69.6			18.0-148		03/11/2020 16:54	<a href="#">WG1440864</a>



Collected date/time: 03/04/20 13:00

L1196380

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	92.1		1	03/10/2020 15:47	<a href="#">WG1440591</a>

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	988		0.863	10.9	1	03/10/2020 19:35	<a href="#">WG1440418</a>

3 Ss

4 Cn

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0236	0.109	1	03/11/2020 03:17	<a href="#">WG1440814</a>
(S) a,a,a-Trifluorotoluene(FID)	98.9			77.0-120		03/11/2020 03:17	<a href="#">WG1440814</a>

5 Sr

6 Qc

7 Gl

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000434	0.00109	1	03/09/2020 16:35	<a href="#">WG1440544</a>
Toluene	U		0.00136	0.00543	1	03/09/2020 16:35	<a href="#">WG1440544</a>
Ethylbenzene	U		0.000576	0.00272	1	03/09/2020 16:35	<a href="#">WG1440544</a>
Total Xylenes	U		0.00519	0.00706	1	03/09/2020 16:35	<a href="#">WG1440544</a>
(S) Toluene-d8	102			75.0-131		03/09/2020 16:35	<a href="#">WG1440544</a>
(S) 4-Bromofluorobenzene	104			67.0-138		03/09/2020 16:35	<a href="#">WG1440544</a>
(S) 1,2-Dichloroethane-d4	88.0			70.0-130		03/09/2020 16:35	<a href="#">WG1440544</a>

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	295		8.74	21.7	5	03/11/2020 20:13	<a href="#">WG1440864</a>
C28-C40 Oil Range	214		1.49	21.7	5	03/11/2020 20:13	<a href="#">WG1440864</a>
(S) o-Terphenyl	69.7			18.0-148		03/11/2020 20:13	<a href="#">WG1440864</a>

Collected date/time: 03/04/20 13:30

L1196380

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	92.0		1	03/10/2020 15:12	<a href="#">WG1440592</a>

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	5780		17.3	217	20	03/10/2020 19:44	<a href="#">WG1440418</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0236	0.109	1	03/11/2020 03:41	<a href="#">WG1440814</a>
(S) a,a,a-Trifluorotoluene(FID)	97.9			77.0-120		03/11/2020 03:41	<a href="#">WG1440814</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000435	0.00109	1	03/09/2020 16:56	<a href="#">WG1440544</a>
Toluene	U		0.00136	0.00543	1	03/09/2020 16:56	<a href="#">WG1440544</a>
Ethylbenzene	U		0.000576	0.00272	1	03/09/2020 16:56	<a href="#">WG1440544</a>
Total Xylenes	U		0.00519	0.00706	1	03/09/2020 16:56	<a href="#">WG1440544</a>
(S) Toluene-d8	102			75.0-131		03/09/2020 16:56	<a href="#">WG1440544</a>
(S) 4-Bromofluorobenzene	105			67.0-138		03/09/2020 16:56	<a href="#">WG1440544</a>
(S) 1,2-Dichloroethane-d4	88.5			70.0-130		03/09/2020 16:56	<a href="#">WG1440544</a>

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	U		1.75	4.35	1	03/11/2020 15:13	<a href="#">WG1440864</a>
C28-C40 Oil Range	0.399	J	0.298	4.35	1	03/11/2020 15:13	<a href="#">WG1440864</a>
(S) o-Terphenyl	38.9			18.0-148		03/11/2020 15:13	<a href="#">WG1440864</a>

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

Collected date/time: 03/04/20 14:00

L1196380

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.3		1	03/10/2020 15:12	<a href="#">WG1440592</a>

1 Cp

2 Tc

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	5290		8.61	108	10	03/11/2020 02:50	<a href="#">WG1441166</a>

3 Ss

4 Cn

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		0.0235	0.108	1	03/11/2020 04:05	<a href="#">WG1440814</a>
(S) a,a,a-Trifluorotoluene(FID)	99.7			77.0-120		03/11/2020 04:05	<a href="#">WG1440814</a>

5 Sr

6 Qc

7 Gl

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		0.000433	0.00108	1	03/09/2020 17:16	<a href="#">WG1440544</a>
Toluene	U		0.00135	0.00542	1	03/09/2020 17:16	<a href="#">WG1440544</a>
Ethylbenzene	U		0.000574	0.00271	1	03/09/2020 17:16	<a href="#">WG1440544</a>
Total Xylenes	U		0.00518	0.00704	1	03/09/2020 17:16	<a href="#">WG1440544</a>
(S) Toluene-d8	101			75.0-131		03/09/2020 17:16	<a href="#">WG1440544</a>
(S) 4-Bromofluorobenzene	104			67.0-138		03/09/2020 17:16	<a href="#">WG1440544</a>
(S) 1,2-Dichloroethane-d4	87.7			70.0-130		03/09/2020 17:16	<a href="#">WG1440544</a>

8 Al

9 Sc

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	11.6		1.74	4.33	1	03/11/2020 17:07	<a href="#">WG1440864</a>
C28-C40 Oil Range	10.1		0.297	4.33	1	03/11/2020 17:07	<a href="#">WG1440864</a>
(S) o-Terphenyl	46.0			18.0-148		03/11/2020 17:07	<a href="#">WG1440864</a>

Total Solids by Method 2540 G-2011

[L1196380-01,02,03](#)

Method Blank (MB)

(MB) R3507462-1 03/10/20 09:43

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1196380-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1196380-02 03/10/20 09:43 • (DUP) R3507462-3 03/10/20 09:43

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Total Solids	77.8	78.6	1	1.13		10

Laboratory Control Sample (LCS)

(LCS) R3507462-2 03/10/20 09:43

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

Total Solids by Method 2540 G-2011

[L1196380-04,05,06,07,08,09,10,11,12,13](#)

Method Blank (MB)

(MB) R3507375-1 03/10/20 16:41

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1196380-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1196380-13 03/10/20 16:41 • (DUP) R3507375-3 03/10/20 16:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	99.1	98.8	1	0.336		10

Laboratory Control Sample (LCS)

(LCS) R3507375-2 03/10/20 16:41

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

Total Solids by Method 2540 G-2011

[L1196380-14,15,16,17,18,19,20,21,22,23](#)

Method Blank (MB)

(MB) R3507369-1 03/10/20 15:47

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1196380-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1196380-21 03/10/20 15:47 • (DUP) R3507369-3 03/10/20 15:47

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	91.9	91.8	1	0.115		10

Laboratory Control Sample (LCS)

(LCS) R3507369-2 03/10/20 15:47

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

Total Solids by Method 2540 G-2011

[L1196380-24,25](#)

Method Blank (MB)

(MB) R3507368-1 03/10/20 15:12

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1196380-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1196380-24 03/10/20 15:12 • (DUP) R3507368-3 03/10/20 15:12

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	92.0	91.6	1	0.471		10

Laboratory Control Sample (LCS)

(LCS) R3507368-2 03/10/20 15:12

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

Wet Chemistry by Method 300.0

[L1196380-21,22,23,24](#)

Method Blank (MB)

(MB) R3507340-1 03/10/20 14:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	2.36	↓	0.795	10.0

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

L1196066-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1196066-01 03/10/20 15:37 • (DUP) R3507340-3 03/10/20 15:46

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	13400	14700	20	9.19		20

L1196380-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1196380-24 03/10/20 19:44 • (DUP) R3507340-6 03/10/20 19:54

Analyte	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	5780	5660	20	2.08		20

Laboratory Control Sample (LCS)

(LCS) R3507340-2 03/10/20 14:25

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	200	190	95.0	90.0-110	

L1196066-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1196066-04 03/10/20 16:15 • (MS) R3507340-4 03/10/20 16:24 • (MSD) R3507340-5 03/10/20 16:34

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	500	34.7	552	567	104	106	1	80.0-120			2.61	20



Wet Chemistry by Method 300.0

[L1196380-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20](#)

Method Blank (MB)

(MB) R3507449-1 03/11/20 00:08

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	1.21	↓	0.795	10.0

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1196380-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1196380-03 03/11/20 02:26 • (DUP) R3507449-5 03/11/20 02:44

Analyte	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	34.9	32.8	1	6.22		20

L1196380-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1196380-20 03/11/20 09:00 • (DUP) R3507449-6 03/11/20 09:18

Analyte	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	879	884	5	0.584		20

Laboratory Control Sample (LCS)

(LCS) R3507449-2 03/11/20 00:26

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	200	211	106	90.0-110	

L1196380-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1196380-02 03/11/20 01:32 • (MS) R3507449-3 03/11/20 01:50 • (MSD) R3507449-4 03/11/20 02:08

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	643	130	784	784	102	102	1	80.0-120			0.0482	20

Wet Chemistry by Method 300.0

[L1196380-25](#)

Method Blank (MB)

(MB) R3507518-1 03/10/20 22:46

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	1.46	J	0.795	10.0

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1196337-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1196337-05 03/10/20 23:45 • (DUP) R3507518-3 03/11/20 00:00

Analyte	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	1.92	10.7	1	139	J P1	20

L1197088-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1197088-01 03/11/20 14:36 • (DUP) R3507662-4 03/11/20 16:45

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	ND	6.83	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3507518-2 03/10/20 23:01

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	200	208	104	90.0-110	

L1196337-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1196337-11 03/11/20 01:33 • (MS) R3507518-4 03/11/20 02:19 • (MSD) R3507518-5 03/11/20 02:34

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	631	1.51	643	643	102	102	1	80.0-120			0.0254	20

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

[L1196380-01,03,04,05,06,07,08,09,10,11,12](#)

Method Blank (MB)

(MB) R3507212-2 03/09/20 12:26

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)	98.2			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3507212-1 03/09/20 11:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.69	103	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			106	77.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

[L1196380-13,14,15,16,17,18,19](#)

Method Blank (MB)

(MB) R3506876-2 03/09/20 14:15

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120

1 Cp

2 Tc

3 Ss

4 Cn

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

(LCS) R3506876-1 03/09/20 11:55 • (LCSD) R3506876-3 03/09/20 20:21

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
TPH (GC/FID) Low Fraction	5.50	6.21	4.69	113	85.3	72.0-127		J3	27.9	20
(S) a,a,a-Trifluorotoluene(FID)				104	103	77.0-120				

5 Sr

6 Qc

7 Gl

L1196456-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1196456-04 03/09/20 21:32 • (MS) R3506876-4 03/10/20 00:43 • (MSD) R3506876-5 03/10/20 08:33

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TPH (GC/FID) Low Fraction	132	ND	120	148	90.9	112	25	10.0-151			20.9	28
(S) a,a,a-Trifluorotoluene(FID)					103	109		77.0-120				

8 Al

9 Sc

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

[L1196380-20,21,22,23,24,25](#)

Method Blank (MB)

(MB) R3508424-2 03/11/20 01:41

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	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)

(LCS) R3508424-1 03/10/20 23:35

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	4.46	81.1	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			104	77.0-120	

L1196478-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1196478-01 03/11/20 04:29 • (MS) R3508424-3 03/11/20 10:09 • (MSD) R3508424-4 03/11/20 10:33

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
TPH (GC/FID) Low Fraction	99.9	ND	86.7	82.7	86.8	82.8	25	10.0-151			4.70	28
(S) a,a,a-Trifluorotoluene(FID)					106	106		77.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

[L1196380-02](#)

Method Blank (MB)

(MB) R3507711-2 03/10/20 11:18

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)	99.2			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3507711-1 03/10/20 10:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.56	101	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			100	77.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

[L1196380-01,02,03,04,05,06](#)

Method Blank (MB)

(MB) R3507285-3 03/07/20 11:24

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	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	90.8			67.0-138
(S) 1,2-Dichloroethane-d4	108			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

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

(LCS) R3507285-1 03/07/20 10:08 • (LCSD) R3507285-2 03/07/20 10:27

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Benzene	0.125	0.113	0.109	90.4	87.2	70.0-123			3.60	20
Ethylbenzene	0.125	0.106	0.104	84.8	83.2	74.0-126			1.90	20
Toluene	0.125	0.101	0.105	80.8	84.0	75.0-121			3.88	20
Xylenes, Total	0.375	0.295	0.306	78.7	81.6	72.0-127			3.66	20
(S) Toluene-d8				98.0	104	75.0-131				
(S) 4-Bromofluorobenzene				95.4	96.8	67.0-138				
(S) 1,2-Dichloroethane-d4				115	114	70.0-130				

6 Qc

7 Gl

8 Al

9 Sc

L1196313-36 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1196313-36 03/07/20 16:23 • (MS) R3507285-4 03/07/20 16:42 • (MSD) R3507285-5 03/07/20 17:01

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Benzene	50.0	174	162	175	0.000	2.00	400	10.0-149	J6	J6	7.72	37
Ethylbenzene	50.0	287	247	277	0.000	0.000	400	10.0-160	V	V	11.5	38
Toluene	50.0	876	662	721	0.000	0.000	400	10.0-156	V	V	8.53	38
Xylenes, Total	150	1620	1340	1440	0.000	0.000	400	10.0-160	V	V	7.19	38
(S) Toluene-d8					105	106		75.0-131				
(S) 4-Bromofluorobenzene					107	120		67.0-138				
(S) 1,2-Dichloroethane-d4					119	114		70.0-130				

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

[L1196380-07,08,09,10,11,12,13,14,15,16,18,19,20,21](#)

Method Blank (MB)

(MB) R3506611-3 03/07/20 21:08

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	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	102			75.0-131
(S) 4-Bromofluorobenzene	103			67.0-138
(S) 1,2-Dichloroethane-d4	89.5			70.0-130

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

(LCS) R3506611-1 03/07/20 19:47 • (LCSD) R3506611-2 03/07/20 20:07

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Benzene	0.125	0.122	0.121	97.6	96.8	70.0-123			0.823	20
Ethylbenzene	0.125	0.105	0.105	84.0	84.0	74.0-126			0.000	20
Toluene	0.125	0.109	0.109	87.2	87.2	75.0-121			0.000	20
Xylenes, Total	0.375	0.306	0.308	81.6	82.1	72.0-127			0.651	20
(S) Toluene-d8				101	99.8	75.0-131				
(S) 4-Bromofluorobenzene				105	105	67.0-138				
(S) 1,2-Dichloroethane-d4				93.2	91.0	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

[L1196380-17](#)

Method Blank (MB)

(MB) R3507671-3 03/09/20 10:48

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	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	105			75.0-131
(S) 4-Bromofluorobenzene	101			67.0-138
(S) 1,2-Dichloroethane-d4	98.3			70.0-130

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

(LCS) R3507671-1 03/09/20 09:32 • (LCSD) R3507671-2 03/09/20 09:51

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Benzene	0.125	0.103	0.102	82.4	81.6	70.0-123			0.976	20
Ethylbenzene	0.125	0.107	0.105	85.6	84.0	74.0-126			1.89	20
Toluene	0.125	0.0999	0.0972	79.9	77.8	75.0-121			2.74	20
Xylenes, Total	0.375	0.347	0.342	92.5	91.2	72.0-127			1.45	20
(S) Toluene-d8				100	97.2	75.0-131				
(S) 4-Bromofluorobenzene				103	104	67.0-138				
(S) 1,2-Dichloroethane-d4				104	106	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

[L1196380-22,23,24,25](#)

Method Blank (MB)

(MB) R3508061-3 03/09/20 12:12

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	101			75.0-131
(S) 4-Bromofluorobenzene	103			67.0-138
(S) 1,2-Dichloroethane-d4	88.4			70.0-130

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

(LCS) R3508061-1 03/09/20 10:51 • (LCSD) R3508061-2 03/09/20 11:11

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	0.127	0.131	102	105	70.0-123			3.10	20
Ethylbenzene	0.125	0.112	0.113	89.6	90.4	74.0-126			0.889	20
Toluene	0.125	0.116	0.118	92.8	94.4	75.0-121			1.71	20
Xylenes, Total	0.375	0.332	0.329	88.5	87.7	72.0-127			0.908	20
(S) Toluene-d8				102	101	75.0-131				
(S) 4-Bromofluorobenzene				104	104	67.0-138				
(S) 1,2-Dichloroethane-d4				90.9	91.1	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

[L1196380-01,02,03,04](#)

Method Blank (MB)

(MB) R3507001-1 03/10/20 01:41

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	69.5			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3507001-2 03/10/20 01:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	38.0	76.0	50.0-150	
(S) o-Terphenyl			73.1	18.0-148	

L1196316-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1196316-01 03/10/20 02:57 • (MS) R3507001-3 03/10/20 03:10 • (MSD) R3507001-4 03/10/20 03:22

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	57.9	U	34.9	37.1	60.3	63.6	1	50.0-150			5.96	20
(S) o-Terphenyl					59.0	61.3		18.0-148				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

[L1196380-13,14,15,16,17,18,19,20,21,22,23,24,25](#)

Method Blank (MB)

(MB) R3507564-1 03/11/20 11:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	64.4			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3507564-2 03/11/20 11:30

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	36.1	72.2	50.0-150	
(S) o-Terphenyl			78.2	18.0-148	

L1196380-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1196380-13 03/11/20 19:35 • (MS) R3507564-3 03/11/20 19:47 • (MSD) R3507564-4 03/11/20 20:00

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	50.5	1.79	35.9	35.6	67.7	67.1	1	50.0-150			0.846	20
(S) o-Terphenyl					60.1	65.0		18.0-148				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

[L1196380-05,06,07,08,09,10,11,12](#)

Method Blank (MB)

(MB) R3507565-1 03/11/20 10:52

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	0.551	J	0.274	4.00
(S) o-Terphenyl	59.0			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3507565-2 03/11/20 11:05

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	35.6	71.2	50.0-150	
(S) o-Terphenyl			77.9	18.0-148	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## 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.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
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.



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.

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

### 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 <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	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	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	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

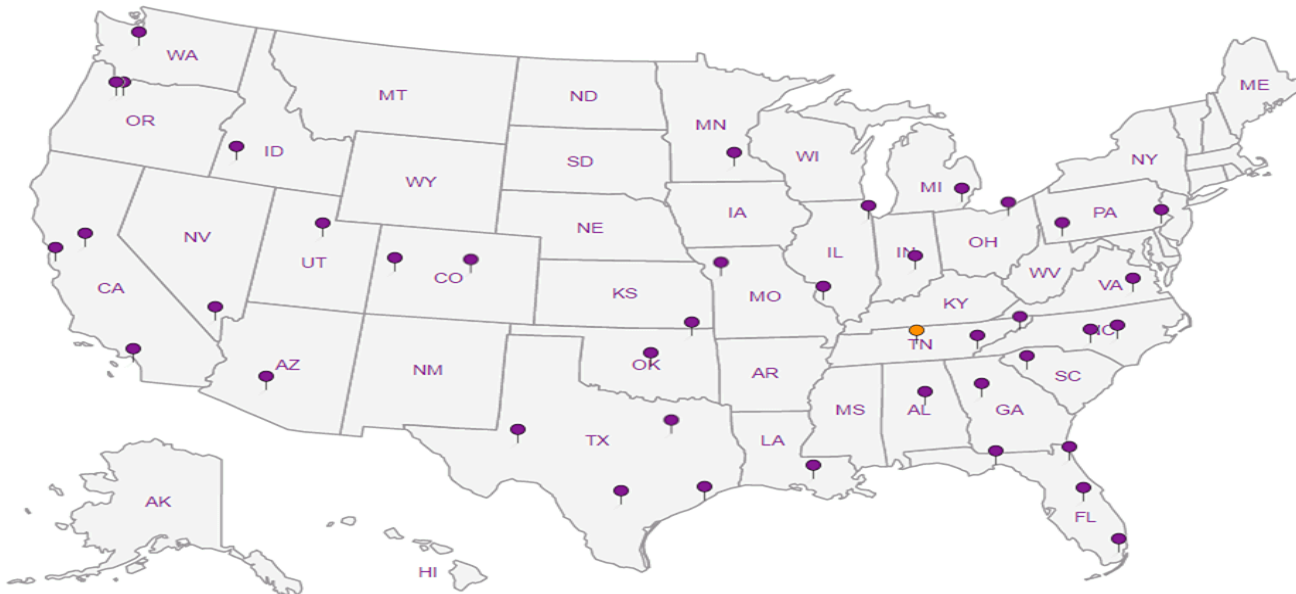
### Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.





# Tetra Tech, Inc.

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

**Client Name:** Conoco Phillips **Site Manager:** Christian Llull

**Project Name:** COP 2-C Header Release **Contact Info:** Email: christian.llull@tetrattech.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

### ANALYSIS REQUEST (Circle or Specify Method No.)

**Comments:** COPTETRA Acctnum **J044**

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DFO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCPL Metals Ag As Ba Cd Cr Pb Se Hg	TCPL Volatiles	TCPL 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	DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE																							NONE		
-01	T-1 (1'-2')	03/03/20	1100		X			X		1	N	X	X																					
-02	T-1 (3'-4')	03/03/20	1110		X			X		1	N	X	X																					
-03	T-1 (5'-6')	03/03/20	1120		X			X		1	N	X	X																					
-04	AH-1S (0'-1')	03/03/20	1130		X			X		1	N	X	X																					
-05	AH-1S (3'-4')	03/03/20	1150		X			X		1	N	X	X																					
-06	AH-1E (0'-1')	03/03/20	1200		X			X		1	N	X	X																					
-07	AH-1E (3'-4')	03/03/20	1210		X			X		1	N	X	X																					
-08	AH-1W (0'-1')	03/03/20	1220		X			X		1	N	X	X																					
-09	AH-1W (3'-4')	03/03/20	1300		X			X		1	N	X	X																					
-10	T-2 (1'-2')	03/03/20	1310		X			X		1	N	X	X																					

Relinquished by: <i>[Signature]</i>	Date: 3-5-20	Time: 14:30	Received by: <i>[Signature]</i>	Date: 3-5-20	Time: 14:30
Relinquished by: <i>[Signature]</i>	Date: 3-5-20	Time: 17:30	Received by: <i>[Signature]</i>	Date: 3-5-20	Time: 17:30
Relinquished by: <i>[Signature]</i>	Date: 3/6/20	Time: 800	Received by: <i>[Signature]</i>	Date: 3/6/20	Time: 800

**LAB USE ONLY**

Standard

RUSH: Same Day 24 hr. 48 hr. 72 hr.

Rush Charges Authorized

Special Report Limits or TRRP Report

Sample Temperature \_\_\_\_\_

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

.9+2=1.1 ug Ag

RAD SCREEN: <0.5 mR/hr







Pace Analytical National Center for Testing & Innovation Cooler Receipt Form			
Client:		L1196380	
Cooler Received/Opened On: 3 / 6 / 20		Temperature:	17
Received By: Willie Taylor		800	
Signature: <i>Willie Taylor</i>			
Receipt Check List		NP	Yes
COC Seal Present / Intact?		✓	
COC Signed / Accurate?			✓
Bottles arrive intact?			✓
Correct bottles used?			✓
Sufficient volume sent?			✓
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			



# ANALYTICAL REPORT

March 24, 2020

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

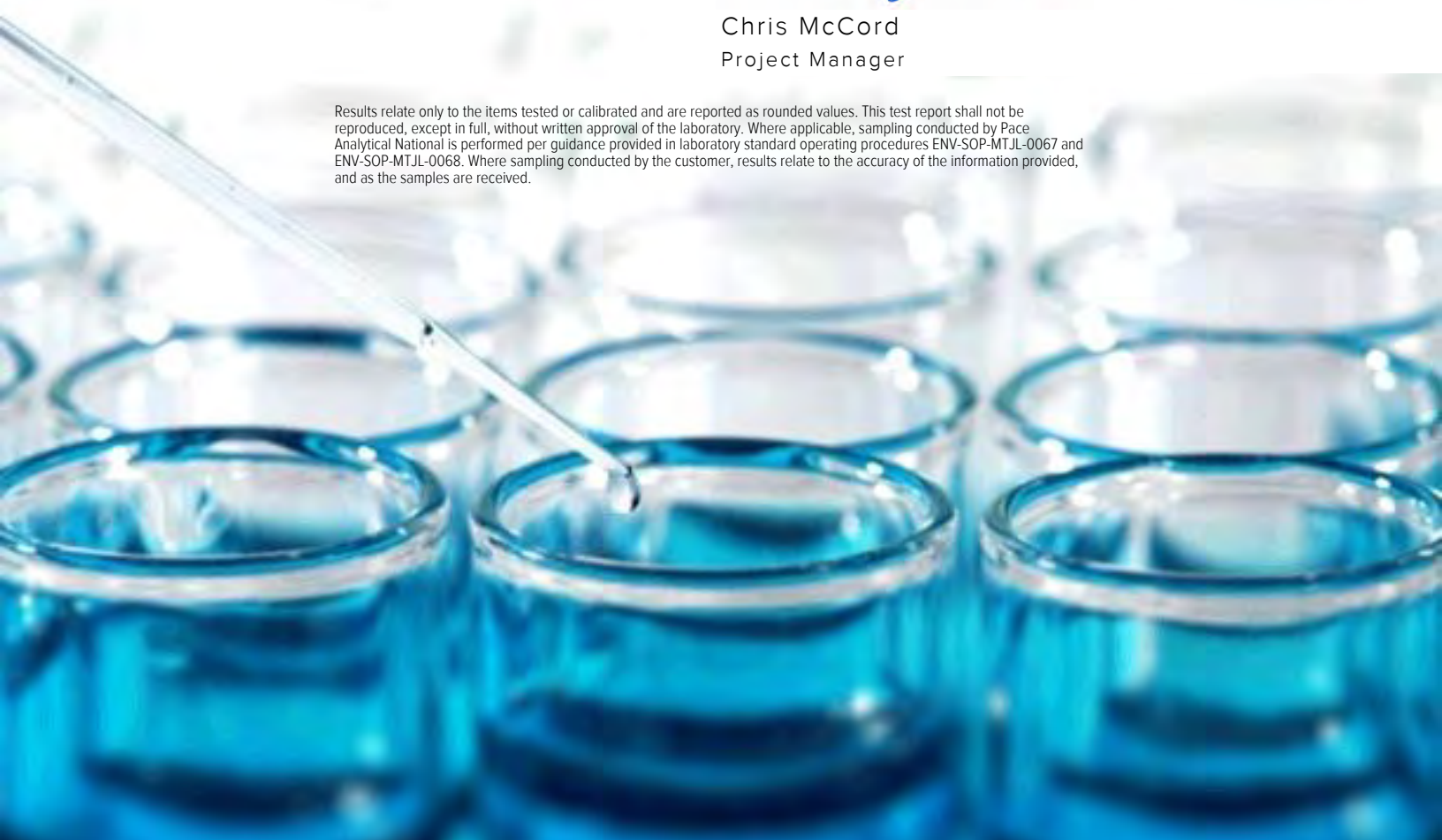
## ConocoPhillips - Tetra Tech

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 Lull  
 901 West Wall  
 Suite 100  
 Midland, TX 79701

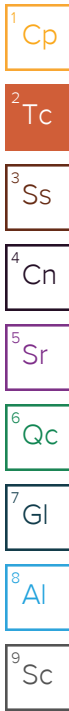
Entire Report Reviewed By:










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.



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Cn: Case Narrative	16
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<b>Al: Accreditations &amp; Locations</b>	<b>101</b>	
<b>Sc: Sample Chain of Custody</b>	<b>102</b>	

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

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

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

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

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



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

1 Cp  
 2 Tc  
 3 Ss  
 4 Cn

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

5 Sr  
 6 Qc  
 7 Gl  
 8 Al

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

9 Sc

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

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

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

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

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

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

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

1 Cp  
 2 Tc  
 3 Ss  
 4 Cn

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

5 Sr  
 6 Qc  
 7 Gl  
 8 Al

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

9 Sc

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

1 Cp  
 2 Tc  
 3 Ss  
 4 Cn

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

5 Sr  
 6 Qc  
 7 Gl  
 8 Al

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

9 Sc

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

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

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

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

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

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

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

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

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

<sup>5</sup> Sr

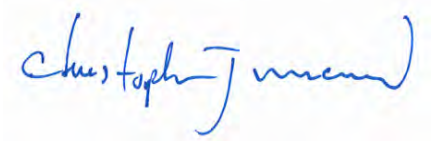
<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All 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

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

Collected date/time: 03/03/20 11:00

L1199114

**Total Solids by Method 2540 G-2011**

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.9		1	03/19/2020 01:48	<a href="#">WG1445642</a>

**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	2.79	<b>B J</b>	0.829	10.4	1	03/18/2020 20:10	<a href="#">WG1444779</a>

**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	0.0568	<b>B J</b>	0.0226	0.104	1	03/17/2020 00:27	<a href="#">WG1445119</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	93.3			77.0-120		03/17/2020 00:27	<a href="#">WG1445119</a>

**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		0.000417	0.00104	1	03/17/2020 00:32	<a href="#">WG1445122</a>
Toluene	U		0.00130	0.00521	1	03/17/2020 00:32	<a href="#">WG1445122</a>
Ethylbenzene	U		0.000553	0.00261	1	03/17/2020 00:32	<a href="#">WG1445122</a>
Total Xylenes	U		0.00498	0.00678	1	03/17/2020 00:32	<a href="#">WG1445122</a>
(S) <i>Toluene-d8</i>	98.4			75.0-131		03/17/2020 00:32	<a href="#">WG1445122</a>
(S) <i>4-Bromofluorobenzene</i>	109			67.0-138		03/17/2020 00:32	<a href="#">WG1445122</a>
(S) <i>1,2-Dichloroethane-d4</i>	132	<b>J1</b>		70.0-130		03/17/2020 00:32	<a href="#">WG1445122</a>

**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	7.86		1.68	4.17	1	03/18/2020 21:53	<a href="#">WG1445151</a>
C28-C40 Oil Range	29.7		0.286	4.17	1	03/18/2020 21:53	<a href="#">WG1445151</a>
(S) <i>o</i> -Terphenyl	66.7			18.0-148		03/18/2020 21:53	<a href="#">WG1445151</a>

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

Collected date/time: 03/03/20 11:10

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	95.1		1	03/19/2020 01:48	<a href="#">WG1445642</a>

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	106		0.836	10.5	1	03/18/2020 20:20	<a href="#">WG1444779</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	0.0258	J	0.0228	0.105	1	03/17/2020 13:18	<a href="#">WG1445448</a>
(S) a,a,a-Trifluorotoluene(FID)	94.6			77.0-120		03/17/2020 13:18	<a href="#">WG1445448</a>

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

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

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	8.59		1.69	4.21	1	03/18/2020 22:05	<a href="#">WG1445151</a>
C28-C40 Oil Range	30.2		0.288	4.21	1	03/18/2020 22:05	<a href="#">WG1445151</a>
(S) o-Terphenyl	75.5			18.0-148		03/18/2020 22:05	<a href="#">WG1445151</a>

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

Collected date/time: 03/03/20 11:20

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	96.0		1	03/19/2020 01:48	<a href="#">WG1445642</a>

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	2.64	<u>B J</u>	0.828	10.4	1	03/18/2020 20:29	<a href="#">WG1444779</a>

3 Ss

4 Cn

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	0.0422	<u>B J</u>	0.0226	0.104	1	03/17/2020 01:09	<a href="#">WG1445119</a>
(S) a,a,a-Trifluorotoluene(FID)	95.2			77.0-120		03/17/2020 01:09	<a href="#">WG1445119</a>

5 Sr

6 Qc

7 Gl

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

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

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	7.90		1.68	4.17	1	03/18/2020 21:40	<a href="#">WG1445151</a>
C28-C40 Oil Range	28.0		0.285	4.17	1	03/18/2020 21:40	<a href="#">WG1445151</a>
(S) o-Terphenyl	69.6			18.0-148		03/18/2020 21:40	<a href="#">WG1445151</a>

Collected date/time: 03/03/20 11:30

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	94.3		1	03/19/2020 01:48	<a href="#">WG1445642</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	285		0.843	10.6	1	03/18/2020 20:39	<a href="#">WG1444779</a>

- 5 Sr
- 6 Qc
- 7 Gl

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0230	0.106	1	03/17/2020 13:39	<a href="#">WG1445448</a>
(S) a,a,a-Trifluorotoluene(FID)	94.5			77.0-120		03/17/2020 13:39	<a href="#">WG1445448</a>

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

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

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	2.16	J	1.71	4.24	1	03/17/2020 22:04	<a href="#">WG1445151</a>
C28-C40 Oil Range	7.64		0.291	4.24	1	03/17/2020 22:04	<a href="#">WG1445151</a>
(S) o-Terphenyl	59.0			18.0-148		03/17/2020 22:04	<a href="#">WG1445151</a>

Collected date/time: 03/05/20 11:50

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.1		1	03/19/2020 01:48	<a href="#">WG1445642</a>

1 Cp

2 Tc

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	38.0		0.836	10.5	1	03/18/2020 20:48	<a href="#">WG1444779</a>

3 Ss

4 Cn

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	0.0350	<b>B J</b>	0.0228	0.105	1	03/17/2020 01:50	<a href="#">WG1445119</a>
(S) a,a,a-Trifluorotoluene(FID)	94.8			77.0-120		03/17/2020 01:50	<a href="#">WG1445119</a>

5 Sr

6 Qc

7 Gl

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		0.000421	0.00105	1	03/17/2020 01:52	<a href="#">WG1445122</a>
Toluene	U		0.00131	0.00526	1	03/17/2020 01:52	<a href="#">WG1445122</a>
Ethylbenzene	U		0.000557	0.00263	1	03/17/2020 01:52	<a href="#">WG1445122</a>
Total Xylenes	U		0.00503	0.00684	1	03/17/2020 01:52	<a href="#">WG1445122</a>
(S) Toluene-d8	102			75.0-131		03/17/2020 01:52	<a href="#">WG1445122</a>
(S) 4-Bromofluorobenzene	109			67.0-138		03/17/2020 01:52	<a href="#">WG1445122</a>
(S) 1,2-Dichloroethane-d4	115			70.0-130		03/17/2020 01:52	<a href="#">WG1445122</a>

8 Al

9 Sc

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	U		1.69	4.21	1	03/17/2020 21:00	<a href="#">WG1445151</a>
C28-C40 Oil Range	4.04	<b>J</b>	0.288	4.21	1	03/17/2020 21:00	<a href="#">WG1445151</a>
(S) o-Terphenyl	64.4			18.0-148		03/17/2020 21:00	<a href="#">WG1445151</a>



Collected date/time: 03/05/20 12:00

L1199114

**Total Solids by Method 2540 G-2011**

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.1		1	03/19/2020 01:48	<a href="#">WG1445642</a>

**1 Cp**

**2 Tc**

**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	628		0.873	11.0	1	03/18/2020 10:55	<a href="#">WG1444780</a>

**3 Ss**

**4 Cn**

**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	0.0649	<b>B J</b>	0.0238	0.110	1	03/17/2020 02:10	<a href="#">WG1445119</a>
(S) a,a,a-Trifluorotoluene(FID)	93.5			77.0-120		03/17/2020 02:10	<a href="#">WG1445119</a>

**5 Sr**

**6 Qc**

**7 Gl**

**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		0.000457	0.00114	1.04	03/17/2020 02:13	<a href="#">WG1445122</a>
Toluene	U		0.00143	0.00571	1.04	03/17/2020 02:13	<a href="#">WG1445122</a>
Ethylbenzene	U		0.000605	0.00285	1.04	03/17/2020 02:13	<a href="#">WG1445122</a>
Total Xylenes	U		0.00546	0.00742	1.04	03/17/2020 02:13	<a href="#">WG1445122</a>
(S) Toluene-d8	99.4			75.0-131		03/17/2020 02:13	<a href="#">WG1445122</a>
(S) 4-Bromofluorobenzene	113			67.0-138		03/17/2020 02:13	<a href="#">WG1445122</a>
(S) 1,2-Dichloroethane-d4	115			70.0-130		03/17/2020 02:13	<a href="#">WG1445122</a>

**8 Al**

**9 Sc**

**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	U		1.77	4.39	1	03/17/2020 21:13	<a href="#">WG1445151</a>
C28-C40 Oil Range	3.13	<b>J</b>	0.301	4.39	1	03/17/2020 21:13	<a href="#">WG1445151</a>
(S) o-Terphenyl	70.9			18.0-148		03/17/2020 21:13	<a href="#">WG1445151</a>

Collected date/time: 03/05/20 12:10

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.7		1	03/19/2020 01:48	<a href="#">WG1445642</a>

1 Cp

2 Tc

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	2630		4.39	55.1	5	03/18/2020 11:14	<a href="#">WG1444780</a>

3 Ss

4 Cn

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	0.0670	J	0.0239	0.110	1	03/17/2020 13:59	<a href="#">WG1445448</a>
(S) a,a,a-Trifluorotoluene(FID)	92.1			77.0-120		03/17/2020 13:59	<a href="#">WG1445448</a>

5 Sr

6 Qc

7 Gl

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		0.000441	0.00110	1	03/17/2020 02:33	<a href="#">WG1445122</a>
Toluene	U		0.00138	0.00551	1	03/17/2020 02:33	<a href="#">WG1445122</a>
Ethylbenzene	U		0.000584	0.00276	1	03/17/2020 02:33	<a href="#">WG1445122</a>
Total Xylenes	U		0.00527	0.00717	1	03/17/2020 02:33	<a href="#">WG1445122</a>
(S) Toluene-d8	102			75.0-131		03/17/2020 02:33	<a href="#">WG1445122</a>
(S) 4-Bromofluorobenzene	112			67.0-138		03/17/2020 02:33	<a href="#">WG1445122</a>
(S) 1,2-Dichloroethane-d4	118			70.0-130		03/17/2020 02:33	<a href="#">WG1445122</a>

8 Al

9 Sc

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	U		1.78	4.41	1	03/17/2020 20:35	<a href="#">WG1445151</a>
C28-C40 Oil Range	7.83		0.302	4.41	1	03/17/2020 20:35	<a href="#">WG1445151</a>
(S) o-Terphenyl	68.8			18.0-148		03/17/2020 20:35	<a href="#">WG1445151</a>

Collected date/time: 03/05/20 12:20

L1199114

**Total Solids by Method 2540 G-2011**

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	90.6		1	03/19/2020 01:48	<a href="#">WG1445642</a>

1 Cp

2 Tc

**Wet Chemistry by Method 300.0**

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	233		0.877	11.0	1	03/18/2020 11:23	<a href="#">WG1444780</a>

3 Ss

4 Cn

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	0.0347	<b>B J</b>	0.0240	0.110	1	03/17/2020 02:52	<a href="#">WG1445119</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	93.8			77.0-120		03/17/2020 02:52	<a href="#">WG1445119</a>

5 Sr

6 Qc

7 Gl

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

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

8 Al

9 Sc

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	U		1.78	4.42	1	03/17/2020 20:48	<a href="#">WG1445151</a>
C28-C40 Oil Range	1.56	<b>J</b>	0.302	4.42	1	03/17/2020 20:48	<a href="#">WG1445151</a>
(S) <i>o</i> -Terphenyl	65.5			18.0-148		03/17/2020 20:48	<a href="#">WG1445151</a>

Collected date/time: 03/05/20 13:00

L1199114

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	<a href="#">WG1445643</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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	<a href="#">WG1444780</a>

- 5 Sr
- 6 Qc
- 7 Gl

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>B J</b>	0.0224	0.103	1	03/17/2020 03:12	<a href="#">WG1445119</a>
(S) a,a,a-Trifluorotoluene(FID)	94.5			77.0-120		03/17/2020 03:12	<a href="#">WG1445119</a>

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	<a href="#">WG1445122</a>
Toluene	U		0.00129	0.00515	1	03/17/2020 03:13	<a href="#">WG1445122</a>
Ethylbenzene	U		0.000546	0.00258	1	03/17/2020 03:13	<a href="#">WG1445122</a>
Total Xylenes	U		0.00493	0.00670	1	03/17/2020 03:13	<a href="#">WG1445122</a>
(S) Toluene-d8	104			75.0-131		03/17/2020 03:13	<a href="#">WG1445122</a>
(S) 4-Bromofluorobenzene	120			67.0-138		03/17/2020 03:13	<a href="#">WG1445122</a>
(S) 1,2-Dichloroethane-d4	113			70.0-130		03/17/2020 03:13	<a href="#">WG1445122</a>

- 8 Al
- 9 Sc

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	<a href="#">WG1445151</a>
C28-C40 Oil Range	391		5.65	82.5	20	03/17/2020 23:32	<a href="#">WG1445151</a>
(S) o-Terphenyl	0.000	<b>J7</b>		18.0-148		03/17/2020 23:32	<a href="#">WG1445151</a>

Collected date/time: 03/05/20 13:10

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	90.6		1	03/19/2020 01:36	<a href="#">WG1445643</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	84.6		0.878	11.0	1	03/18/2020 11:42	<a href="#">WG1444780</a>

5 Sr

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0240	0.110	1	03/17/2020 14:20	<a href="#">WG1445448</a>
(S) a,a,a-Trifluorotoluene(FID)	94.0			77.0-120		03/17/2020 14:20	<a href="#">WG1445448</a>

6 Qc

7 Gl

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

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

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	309		35.5	88.3	20	03/17/2020 23:57	<a href="#">WG1445151</a>
C28-C40 Oil Range	793		6.05	88.3	20	03/17/2020 23:57	<a href="#">WG1445151</a>
(S) o-Terphenyl	0.000	J7		18.0-148		03/17/2020 23:57	<a href="#">WG1445151</a>

Collected date/time: 03/05/20 11:00

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.9		1	03/19/2020 01:36	<a href="#">WG1445643</a>

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	2.50	J	0.829	10.4	1	03/18/2020 11:52	<a href="#">WG1444780</a>

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	0.0312	B J	0.0226	0.104	1	03/17/2020 03:53	<a href="#">WG1445119</a>
(S) a,a,a-Trifluorotoluene(FID)	95.4			77.0-120		03/17/2020 03:53	<a href="#">WG1445119</a>

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		0.000417	0.00104	1	03/17/2020 03:54	<a href="#">WG1445122</a>
Toluene	U		0.00130	0.00521	1	03/17/2020 03:54	<a href="#">WG1445122</a>
Ethylbenzene	U		0.000553	0.00261	1	03/17/2020 03:54	<a href="#">WG1445122</a>
Total Xylenes	U		0.00498	0.00678	1	03/17/2020 03:54	<a href="#">WG1445122</a>
(S) Toluene-d8	104			75.0-131		03/17/2020 03:54	<a href="#">WG1445122</a>
(S) 4-Bromofluorobenzene	117			67.0-138		03/17/2020 03:54	<a href="#">WG1445122</a>
(S) 1,2-Dichloroethane-d4	112			70.0-130		03/17/2020 03:54	<a href="#">WG1445122</a>

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	9.00		1.68	4.17	1	03/18/2020 22:18	<a href="#">WG1445151</a>
C28-C40 Oil Range	33.3		0.286	4.17	1	03/18/2020 22:18	<a href="#">WG1445151</a>
(S) o-Terphenyl	73.7			18.0-148		03/18/2020 22:18	<a href="#">WG1445151</a>

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

Collected date/time: 03/05/20 11:10

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.6		1	03/19/2020 01:36	<a href="#">WG1445643</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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	209		0.841	10.6	1	03/18/2020 12:01	<a href="#">WG1444780</a>

- 5 Sr
- 6 Qc
- 7 Gl

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		0.0230	0.106	1	03/17/2020 14:41	<a href="#">WG1445448</a>
(S) a,a,a-Trifluorotoluene(FID)	94.3			77.0-120		03/17/2020 14:41	<a href="#">WG1445448</a>

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		0.000423	0.00106	1	03/17/2020 04:14	<a href="#">WG1445122</a>
Toluene	U		0.00132	0.00529	1	03/17/2020 04:14	<a href="#">WG1445122</a>
Ethylbenzene	U		0.000561	0.00264	1	03/17/2020 04:14	<a href="#">WG1445122</a>
Total Xylenes	U		0.00506	0.00687	1	03/17/2020 04:14	<a href="#">WG1445122</a>
(S) Toluene-d8	102			75.0-131		03/17/2020 04:14	<a href="#">WG1445122</a>
(S) 4-Bromofluorobenzene	115			67.0-138		03/17/2020 04:14	<a href="#">WG1445122</a>
(S) 1,2-Dichloroethane-d4	110			70.0-130		03/17/2020 04:14	<a href="#">WG1445122</a>

- 8 Al
- 9 Sc

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	3.18	J	1.70	4.23	1	03/18/2020 19:46	<a href="#">WG1445151</a>
C28-C40 Oil Range	8.05		0.290	4.23	1	03/18/2020 19:46	<a href="#">WG1445151</a>
(S) o-Terphenyl	69.3			18.0-148		03/18/2020 19:46	<a href="#">WG1445151</a>

Collected date/time: 03/05/20 11:20

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	97.8		1	03/19/2020 01:36	<a href="#">WG1445643</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	19.2		0.813	10.2	1	03/18/2020 12:49	<a href="#">WG1444780</a>

- 5 Sr
- 6 Qc
- 7 Gl

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	0.0273	<b>B J</b>	0.0222	0.102	1	03/17/2020 04:34	<a href="#">WG1445119</a>
(S) a,a,a-Trifluorotoluene(FID)	95.4			77.0-120		03/17/2020 04:34	<a href="#">WG1445119</a>

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

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

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	23.8		1.65	4.09	1	03/18/2020 19:59	<a href="#">WG1445151</a>
C28-C40 Oil Range	63.4		0.280	4.09	1	03/18/2020 19:59	<a href="#">WG1445151</a>
(S) o-Terphenyl	61.3			18.0-148		03/18/2020 19:59	<a href="#">WG1445151</a>



Collected date/time: 03/05/20 11:30

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.1		1	03/19/2020 01:36	<a href="#">WG1445643</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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	33.7		0.827	10.4	1	03/18/2020 12:58	<a href="#">WG1444780</a>

- 5 Sr
- 6 Qc
- 7 Gl

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	0.0362	<b>B J</b>	0.0226	0.104	1	03/17/2020 04:55	<a href="#">WG1445119</a>
(S) a,a,a-Trifluorotoluene(FID)	95.9			77.0-120		03/17/2020 04:55	<a href="#">WG1445119</a>

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		0.000416	0.00104	1	03/17/2020 04:55	<a href="#">WG1445122</a>
Toluene	U		0.00130	0.00520	1	03/17/2020 04:55	<a href="#">WG1445122</a>
Ethylbenzene	U		0.000551	0.00260	1	03/17/2020 04:55	<a href="#">WG1445122</a>
Total Xylenes	U		0.00497	0.00676	1	03/17/2020 04:55	<a href="#">WG1445122</a>
(S) Toluene-d8	103			75.0-131		03/17/2020 04:55	<a href="#">WG1445122</a>
(S) 4-Bromofluorobenzene	119			67.0-138		03/17/2020 04:55	<a href="#">WG1445122</a>
(S) 1,2-Dichloroethane-d4	113			70.0-130		03/17/2020 04:55	<a href="#">WG1445122</a>

- 8 Al
- 9 Sc

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	18.5		1.67	4.16	1	03/17/2020 21:26	<a href="#">WG1445151</a>
C28-C40 Oil Range	6.18		0.285	4.16	1	03/17/2020 21:26	<a href="#">WG1445151</a>
(S) o-Terphenyl	40.4			18.0-148		03/17/2020 21:26	<a href="#">WG1445151</a>

Collected date/time: 03/05/20 11:50

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.4		1	03/19/2020 01:36	<a href="#">WG1445643</a>

1 Cp

2 Tc

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	569		4.40	55.3	5	03/18/2020 13:08	<a href="#">WG1444780</a>

3 Ss

4 Cn

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	0.0265	<b>B J</b>	0.0240	0.111	1	03/17/2020 05:15	<a href="#">WG1445119</a>
(S) a,a,a-Trifluorotoluene(FID)	95.0			77.0-120		03/17/2020 05:15	<a href="#">WG1445119</a>

5 Sr

6 Qc

7 Gl

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		0.000442	0.00111	1	03/17/2020 05:15	<a href="#">WG1445122</a>
Toluene	U		0.00138	0.00553	1	03/17/2020 05:15	<a href="#">WG1445122</a>
Ethylbenzene	U		0.000586	0.00277	1	03/17/2020 05:15	<a href="#">WG1445122</a>
Total Xylenes	U		0.00529	0.00719	1	03/17/2020 05:15	<a href="#">WG1445122</a>
(S) Toluene-d8	103			75.0-131		03/17/2020 05:15	<a href="#">WG1445122</a>
(S) 4-Bromofluorobenzene	115			67.0-138		03/17/2020 05:15	<a href="#">WG1445122</a>
(S) 1,2-Dichloroethane-d4	116			70.0-130		03/17/2020 05:15	<a href="#">WG1445122</a>

8 Al

9 Sc

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	1250		35.6	88.5	20	03/18/2020 00:15	<a href="#">WG1445151</a>
C28-C40 Oil Range	969		6.06	88.5	20	03/18/2020 00:15	<a href="#">WG1445151</a>
(S) o-Terphenyl	0.000	<b>J7</b>		18.0-148		03/18/2020 00:15	<a href="#">WG1445151</a>

Collected date/time: 03/05/20 12:20

L1199114

**Total Solids by Method 2540 G-2011**

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	93.4		1	03/19/2020 01:36	<a href="#">WG1445643</a>

1 Cp

2 Tc

**Wet Chemistry by Method 300.0**

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	722		0.851	10.7	1	03/18/2020 13:17	<a href="#">WG1444780</a>

3 Ss

4 Cn

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	0.0251	J	0.0232	0.107	1	03/17/2020 15:01	<a href="#">WG1445448</a>
(S) a,a,a-Trifluorotoluene(FID)	95.1			77.0-120		03/17/2020 15:01	<a href="#">WG1445448</a>

5 Sr

6 Qc

7 Gl

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

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

8 Al

9 Sc

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	215		1.72	4.28	1	03/17/2020 21:38	<a href="#">WG1445151</a>
C28-C40 Oil Range	156		0.293	4.28	1	03/17/2020 21:38	<a href="#">WG1445151</a>
(S) o-Terphenyl	71.0			18.0-148		03/17/2020 21:38	<a href="#">WG1445151</a>

Collected date/time: 03/05/20 13:00

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.7		1	03/19/2020 01:36	<a href="#">WG1445643</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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	1.38	J	0.830	10.4	1	03/18/2020 13:27	<a href="#">WG1444780</a>

- 5 Sr
- 6 Qc
- 7 Gl

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	0.0323	B J	0.0227	0.104	1	03/17/2020 07:01	<a href="#">WG1445119</a>
(S) a,a,a-Trifluorotoluene(FID)	96.4			77.0-120		03/17/2020 07:01	<a href="#">WG1445119</a>

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		0.000418	0.00104	1	03/17/2020 05:56	<a href="#">WG1445122</a>
Toluene	U		0.00131	0.00522	1	03/17/2020 05:56	<a href="#">WG1445122</a>
Ethylbenzene	U		0.000554	0.00261	1	03/17/2020 05:56	<a href="#">WG1445122</a>
Total Xylenes	U		0.00499	0.00679	1	03/17/2020 05:56	<a href="#">WG1445122</a>
(S) Toluene-d8	102			75.0-131		03/17/2020 05:56	<a href="#">WG1445122</a>
(S) 4-Bromofluorobenzene	115			67.0-138		03/17/2020 05:56	<a href="#">WG1445122</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		03/17/2020 05:56	<a href="#">WG1445122</a>

- 8 Al
- 9 Sc

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	2.54	J	1.68	4.18	1	03/19/2020 23:30	<a href="#">WG1446556</a>
C28-C40 Oil Range	9.51		0.286	4.18	1	03/19/2020 23:30	<a href="#">WG1446556</a>
(S) o-Terphenyl	66.8			18.0-148		03/19/2020 23:30	<a href="#">WG1446556</a>

Collected date/time: 03/05/20 13:10

L1199114

**Total Solids by Method 2540 G-2011**

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.6		1	03/19/2020 01:36	<a href="#">WG1445643</a>

**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	3.41	J	0.832	10.5	1	03/18/2020 13:36	<a href="#">WG1444780</a>

**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	0.0247	B J	0.0227	0.105	1	03/17/2020 07:22	<a href="#">WG1445119</a>
(S) a,a,a-Trifluorotoluene(FID)	95.3			77.0-120		03/17/2020 07:22	<a href="#">WG1445119</a>

**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		0.000419	0.00105	1	03/17/2020 06:16	<a href="#">WG1445122</a>
Toluene	U		0.00131	0.00523	1	03/17/2020 06:16	<a href="#">WG1445122</a>
Ethylbenzene	U		0.000555	0.00262	1	03/17/2020 06:16	<a href="#">WG1445122</a>
Total Xylenes	U		0.00500	0.00680	1	03/17/2020 06:16	<a href="#">WG1445122</a>
(S) Toluene-d8	103			75.0-131		03/17/2020 06:16	<a href="#">WG1445122</a>
(S) 4-Bromofluorobenzene	119			67.0-138		03/17/2020 06:16	<a href="#">WG1445122</a>
(S) 1,2-Dichloroethane-d4	110			70.0-130		03/17/2020 06:16	<a href="#">WG1445122</a>

**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	U		1.68	4.19	1	03/19/2020 21:32	<a href="#">WG1446556</a>
C28-C40 Oil Range	3.52	J	0.287	4.19	1	03/19/2020 21:32	<a href="#">WG1446556</a>
(S) o-Terphenyl	66.5			18.0-148		03/19/2020 21:32	<a href="#">WG1446556</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/05/20 11:00

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.4		1	03/19/2020 01:27	<a href="#">WG1445647</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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	1.27	J	0.851	10.7	1	03/18/2020 13:46	<a href="#">WG1444780</a>

- 5 Sr
- 6 Qc
- 7 Gl

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	0.0324	B J	0.0232	0.107	1	03/17/2020 07:42	<a href="#">WG1445119</a>
(S) a,a,a-Trifluorotoluene(FID)	94.5			77.0-120		03/17/2020 07:42	<a href="#">WG1445119</a>

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		0.000428	0.00107	1	03/17/2020 06:36	<a href="#">WG1445122</a>
Toluene	U		0.00134	0.00535	1	03/17/2020 06:36	<a href="#">WG1445122</a>
Ethylbenzene	U		0.000567	0.00268	1	03/17/2020 06:36	<a href="#">WG1445122</a>
Total Xylenes	U		0.00512	0.00696	1	03/17/2020 06:36	<a href="#">WG1445122</a>
(S) Toluene-d8	101			75.0-131		03/17/2020 06:36	<a href="#">WG1445122</a>
(S) 4-Bromofluorobenzene	115			67.0-138		03/17/2020 06:36	<a href="#">WG1445122</a>
(S) 1,2-Dichloroethane-d4	111			70.0-130		03/17/2020 06:36	<a href="#">WG1445122</a>

- 8 Al
- 9 Sc

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	U		1.72	4.28	1	03/19/2020 21:45	<a href="#">WG1446556</a>
C28-C40 Oil Range	3.00	J	0.293	4.28	1	03/19/2020 21:45	<a href="#">WG1446556</a>
(S) o-Terphenyl	62.9			18.0-148		03/19/2020 21:45	<a href="#">WG1446556</a>

Collected date/time: 03/05/20 11:10

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	92.2		1	03/19/2020 01:27	<a href="#">WG1445647</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	24.0		0.862	10.8	1	03/18/2020 13:55	<a href="#">WG1444780</a>

- 5 Sr
- 6 Qc
- 7 Gl

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	0.0788	<b>B J</b>	0.0235	0.108	1	03/17/2020 08:03	<a href="#">WG1445119</a>
(S) a,a,a-Trifluorotoluene(FID)	92.8			77.0-120		03/17/2020 08:03	<a href="#">WG1445119</a>

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

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

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	U		1.75	4.34	1	03/19/2020 21:57	<a href="#">WG1446556</a>
C28-C40 Oil Range	4.33	<b>J</b>	0.297	4.34	1	03/19/2020 21:57	<a href="#">WG1446556</a>
(S) o-Terphenyl	63.0			18.0-148		03/19/2020 21:57	<a href="#">WG1446556</a>

Collected date/time: 03/05/20 11:20

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.5		1	03/19/2020 01:27	<a href="#">WG1445647</a>

1 Cp

2 Tc

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	3.62	J	0.841	10.6	1	03/18/2020 14:24	<a href="#">WG1444780</a>

3 Ss

4 Cn

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	0.0546	B J	0.0230	0.106	1	03/17/2020 01:23	<a href="#">WG1445120</a>
(S) a,a,a-Trifluorotoluene(FID)	96.0			77.0-120		03/17/2020 01:23	<a href="#">WG1445120</a>

5 Sr

6 Qc

7 Gl

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		0.000423	0.00106	1	03/17/2020 15:22	<a href="#">WG1445259</a>
Toluene	U		0.00132	0.00529	1	03/17/2020 15:22	<a href="#">WG1445259</a>
Ethylbenzene	U		0.000561	0.00264	1	03/17/2020 15:22	<a href="#">WG1445259</a>
Total Xylenes	U		0.00506	0.00688	1	03/17/2020 15:22	<a href="#">WG1445259</a>
(S) Toluene-d8	105			75.0-131		03/17/2020 15:22	<a href="#">WG1445259</a>
(S) 4-Bromofluorobenzene	103			67.0-138		03/17/2020 15:22	<a href="#">WG1445259</a>
(S) 1,2-Dichloroethane-d4	99.2			70.0-130		03/17/2020 15:22	<a href="#">WG1445259</a>

8 Al

9 Sc

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	16.4		1.70	4.23	1	03/20/2020 07:45	<a href="#">WG1446556</a>
C28-C40 Oil Range	53.2		0.290	4.23	1	03/20/2020 07:45	<a href="#">WG1446556</a>
(S) o-Terphenyl	47.2			18.0-148		03/20/2020 07:45	<a href="#">WG1446556</a>



Collected date/time: 03/05/20 11:30

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.5		1	03/19/2020 01:27	<a href="#">WG1445647</a>

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	1950		4.55	57.1	5	03/18/2020 14:34	<a href="#">WG1444780</a>

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	0.0493	<b>BJ</b>	0.0248	0.114	1	03/17/2020 01:44	<a href="#">WG1445120</a>
(S) a,a,a-Trifluorotoluene(FID)	96.7			77.0-120		03/17/2020 01:44	<a href="#">WG1445120</a>

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		0.000457	0.00114	1	03/17/2020 15:41	<a href="#">WG1445259</a>
Toluene	U		0.00143	0.00571	1	03/17/2020 15:41	<a href="#">WG1445259</a>
Ethylbenzene	U		0.000606	0.00286	1	03/17/2020 15:41	<a href="#">WG1445259</a>
Total Xylenes	U		0.00546	0.00743	1	03/17/2020 15:41	<a href="#">WG1445259</a>
(S) Toluene-d8	105			75.0-131		03/17/2020 15:41	<a href="#">WG1445259</a>
(S) 4-Bromofluorobenzene	99.6			67.0-138		03/17/2020 15:41	<a href="#">WG1445259</a>
(S) 1,2-Dichloroethane-d4	100			70.0-130		03/17/2020 15:41	<a href="#">WG1445259</a>

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	8.71		1.84	4.57	1	03/19/2020 23:56	<a href="#">WG1446556</a>
C28-C40 Oil Range	18.5		0.313	4.57	1	03/19/2020 23:56	<a href="#">WG1446556</a>
(S) o-Terphenyl	67.5			18.0-148		03/19/2020 23:56	<a href="#">WG1446556</a>

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

Collected date/time: 03/05/20 11:50

L1199114

**Total Solids by Method 2540 G-2011**

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	90.9		1	03/19/2020 01:27	<a href="#">WG1445647</a>

1 Cp

2 Tc

**Wet Chemistry by Method 300.0**

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	1100		4.38	55.0	5	03/18/2020 14:43	<a href="#">WG1444780</a>

3 Ss

4 Cn

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	0.0522	<b>B J</b>	0.0239	0.110	1	03/17/2020 02:04	<a href="#">WG1445120</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	96.3			77.0-120		03/17/2020 02:04	<a href="#">WG1445120</a>

5 Sr

6 Qc

7 Gl

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000440	0.00110	1	03/17/2020 16:00	<a href="#">WG1445259</a>
Toluene	U		0.00138	0.00550	1	03/17/2020 16:00	<a href="#">WG1445259</a>
Ethylbenzene	U		0.000583	0.00275	1	03/17/2020 16:00	<a href="#">WG1445259</a>
Total Xylenes	U		0.00526	0.00715	1	03/17/2020 16:00	<a href="#">WG1445259</a>
(S) <i>Toluene-d8</i>	105			75.0-131		03/17/2020 16:00	<a href="#">WG1445259</a>
(S) <i>4-Bromofluorobenzene</i>	98.8			67.0-138		03/17/2020 16:00	<a href="#">WG1445259</a>
(S) <i>1,2-Dichloroethane-d4</i>	101			70.0-130		03/17/2020 16:00	<a href="#">WG1445259</a>

8 Al

9 Sc

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	2.45	<b>J</b>	1.77	4.40	1	03/19/2020 22:40	<a href="#">WG1446556</a>
C28-C40 Oil Range	8.45		0.302	4.40	1	03/19/2020 22:40	<a href="#">WG1446556</a>
(S) <i>o</i> -Terphenyl	68.2			18.0-148		03/19/2020 22:40	<a href="#">WG1446556</a>

Collected date/time: 03/05/20 13:00

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	95.6		1	03/19/2020 01:27	<a href="#">WG1445647</a>

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	446		0.832	10.5	1	03/18/2020 14:53	<a href="#">WG1444780</a>

3 Ss

4 Cn

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	0.0392	<u>BJ</u>	0.0227	0.105	1	03/17/2020 02:25	<a href="#">WG1445120</a>
(S) a,a,a-Trifluorotoluene(FID)	96.6			77.0-120		03/17/2020 02:25	<a href="#">WG1445120</a>

5 Sr

6 Qc

7 Gl

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000419	0.00105	1	03/17/2020 16:19	<a href="#">WG1445259</a>
Toluene	U		0.00131	0.00523	1	03/17/2020 16:19	<a href="#">WG1445259</a>
Ethylbenzene	U		0.000555	0.00262	1	03/17/2020 16:19	<a href="#">WG1445259</a>
Total Xylenes	U		0.00500	0.00680	1	03/17/2020 16:19	<a href="#">WG1445259</a>
(S) Toluene-d8	107			75.0-131		03/17/2020 16:19	<a href="#">WG1445259</a>
(S) 4-Bromofluorobenzene	100			67.0-138		03/17/2020 16:19	<a href="#">WG1445259</a>
(S) 1,2-Dichloroethane-d4	98.8			70.0-130		03/17/2020 16:19	<a href="#">WG1445259</a>

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	1.76	<u>J</u>	1.68	4.19	1	03/20/2020 07:19	<a href="#">WG1446556</a>
C28-C40 Oil Range	1.61	<u>J</u>	0.287	4.19	1	03/20/2020 07:19	<a href="#">WG1446556</a>
(S) o-Terphenyl	74.3			18.0-148		03/20/2020 07:19	<a href="#">WG1446556</a>

Collected date/time: 03/05/20 13:10

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.7		1	03/19/2020 01:27	<a href="#">WG1445647</a>

1 Cp

2 Tc

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	3.69	J	0.839	10.6	1	03/18/2020 15:02	<a href="#">WG1444780</a>

3 Ss

4 Cn

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	0.0548	B J	0.0229	0.106	1	03/17/2020 18:13	<a href="#">WG1445660</a>
(S) a,a,a-Trifluorotoluene(FID)	96.5			77.0-120		03/17/2020 18:13	<a href="#">WG1445660</a>

5 Sr

6 Qc

7 Gl

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		0.000422	0.00106	1	03/17/2020 16:38	<a href="#">WG1445259</a>
Toluene	U		0.00132	0.00528	1	03/17/2020 16:38	<a href="#">WG1445259</a>
Ethylbenzene	U		0.000560	0.00264	1	03/17/2020 16:38	<a href="#">WG1445259</a>
Total Xylenes	U		0.00505	0.00686	1	03/17/2020 16:38	<a href="#">WG1445259</a>
(S) Toluene-d8	105			75.0-131		03/17/2020 16:38	<a href="#">WG1445259</a>
(S) 4-Bromofluorobenzene	98.1			67.0-138		03/17/2020 16:38	<a href="#">WG1445259</a>
(S) 1,2-Dichloroethane-d4	101			70.0-130		03/17/2020 16:38	<a href="#">WG1445259</a>

8 Al

9 Sc

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	9.98		1.70	4.22	1	03/20/2020 00:59	<a href="#">WG1446556</a>
C28-C40 Oil Range	28.0		0.289	4.22	1	03/20/2020 00:59	<a href="#">WG1446556</a>
(S) o-Terphenyl	62.5			18.0-148		03/20/2020 00:59	<a href="#">WG1446556</a>

Collected date/time: 03/06/20 11:00

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.1		1	03/19/2020 01:27	<a href="#">WG1445647</a>

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	1780		9.13	115	10	03/18/2020 00:06	<a href="#">WG1445291</a>

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	0.0422	<b>BJ</b>	0.0249	0.115	1	03/17/2020 06:54	<a href="#">WG1445120</a>
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		03/17/2020 06:54	<a href="#">WG1445120</a>

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		0.000459	0.00115	1	03/17/2020 16:57	<a href="#">WG1445259</a>
Toluene	U		0.00144	0.00574	1	03/17/2020 16:57	<a href="#">WG1445259</a>
Ethylbenzene	U		0.000608	0.00287	1	03/17/2020 16:57	<a href="#">WG1445259</a>
Total Xylenes	U		0.00549	0.00746	1	03/17/2020 16:57	<a href="#">WG1445259</a>
(S) Toluene-d8	106			75.0-131		03/17/2020 16:57	<a href="#">WG1445259</a>
(S) 4-Bromofluorobenzene	100			67.0-138		03/17/2020 16:57	<a href="#">WG1445259</a>
(S) 1,2-Dichloroethane-d4	100			70.0-130		03/17/2020 16:57	<a href="#">WG1445259</a>

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	7.51		1.85	4.59	1	03/20/2020 00:08	<a href="#">WG1446556</a>
C28-C40 Oil Range	16.9		0.315	4.59	1	03/20/2020 00:08	<a href="#">WG1446556</a>
(S) o-Terphenyl	66.7			18.0-148		03/20/2020 00:08	<a href="#">WG1446556</a>

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

Collected date/time: 03/06/20 11:20

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.4		1	03/19/2020 01:27	<a href="#">WG1445647</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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	40.3		0.816	10.3	1	03/18/2020 00:15	<a href="#">WG1445291</a>

- 5 Sr
- 6 Qc
- 7 Gl

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	0.0408	<b>B J</b>	0.0223	0.103	1	03/17/2020 07:14	<a href="#">WG1445120</a>
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		03/17/2020 07:14	<a href="#">WG1445120</a>

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		0.000411	0.00103	1	03/17/2020 17:16	<a href="#">WG1445259</a>
Toluene	U		0.00128	0.00514	1	03/17/2020 17:16	<a href="#">WG1445259</a>
Ethylbenzene	U		0.000544	0.00257	1	03/17/2020 17:16	<a href="#">WG1445259</a>
Total Xylenes	U		0.00491	0.00668	1	03/17/2020 17:16	<a href="#">WG1445259</a>
(S) Toluene-d8	106			75.0-131		03/17/2020 17:16	<a href="#">WG1445259</a>
(S) 4-Bromofluorobenzene	96.7			67.0-138		03/17/2020 17:16	<a href="#">WG1445259</a>
(S) 1,2-Dichloroethane-d4	102			70.0-130		03/17/2020 17:16	<a href="#">WG1445259</a>

- 8 Al
- 9 Sc

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	2.19	<b>J</b>	1.65	4.11	1	03/19/2020 23:05	<a href="#">WG1446556</a>
C28-C40 Oil Range	7.68		0.281	4.11	1	03/19/2020 23:05	<a href="#">WG1446556</a>
(S) o-Terphenyl	66.0			18.0-148		03/19/2020 23:05	<a href="#">WG1446556</a>

Collected date/time: 03/06/20 11:30

L1199114

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	<a href="#">WG1445648</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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	<a href="#">WG1445291</a>

- 5 Sr
- 6 Qc
- 7 Gl

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	<u>B J</u>	0.0228	0.105	1	03/17/2020 07:35	<a href="#">WG1445120</a>
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		03/17/2020 07:35	<a href="#">WG1445120</a>

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	<a href="#">WG1445259</a>
Toluene	U		0.00131	0.00525	1	03/17/2020 17:35	<a href="#">WG1445259</a>
Ethylbenzene	U		0.000556	0.00262	1	03/17/2020 17:35	<a href="#">WG1445259</a>
Total Xylenes	U		0.00502	0.00682	1	03/17/2020 17:35	<a href="#">WG1445259</a>
(S) Toluene-d8	104			75.0-131		03/17/2020 17:35	<a href="#">WG1445259</a>
(S) 4-Bromofluorobenzene	100			67.0-138		03/17/2020 17:35	<a href="#">WG1445259</a>
(S) 1,2-Dichloroethane-d4	99.3			70.0-130		03/17/2020 17:35	<a href="#">WG1445259</a>

- 8 Al
- 9 Sc

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	<a href="#">WG1446556</a>
C28-C40 Oil Range	3.30	<u>J</u>	0.288	4.20	1	03/20/2020 07:32	<a href="#">WG1446556</a>
(S) o-Terphenyl	60.6			18.0-148		03/20/2020 07:32	<a href="#">WG1446556</a>

Collected date/time: 03/06/20 11:50

L1199114

**Total Solids by Method 2540 G-2011**

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.1		1	03/19/2020 01:04	<a href="#">WG1445648</a>

**1 Cp**

**2 Tc**

**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	1080		4.57	57.4	5	03/18/2020 00:34	<a href="#">WG1445291</a>

**3 Ss**

**4 Cn**

**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	0.0556	<b>B J</b>	0.0249	0.115	1	03/17/2020 18:34	<a href="#">WG1445660</a>
(S) a,a,a-Trifluorotoluene(FID)	95.1			77.0-120		03/17/2020 18:34	<a href="#">WG1445660</a>

**5 Sr**

**6 Qc**

**7 Gl**

**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		0.000459	0.00115	1	03/17/2020 17:54	<a href="#">WG1445259</a>
Toluene	U		0.00144	0.00574	1	03/17/2020 17:54	<a href="#">WG1445259</a>
Ethylbenzene	U		0.000609	0.00287	1	03/17/2020 17:54	<a href="#">WG1445259</a>
Total Xylenes	U		0.00549	0.00746	1	03/17/2020 17:54	<a href="#">WG1445259</a>
(S) Toluene-d8	104			75.0-131		03/17/2020 17:54	<a href="#">WG1445259</a>
(S) 4-Bromofluorobenzene	96.8			67.0-138		03/17/2020 17:54	<a href="#">WG1445259</a>
(S) 1,2-Dichloroethane-d4	98.9			70.0-130		03/17/2020 17:54	<a href="#">WG1445259</a>

**8 Al**

**9 Sc**

**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	324		37.0	91.9	20	03/20/2020 02:28	<a href="#">WG1446556</a>
C28-C40 Oil Range	633		6.29	91.9	20	03/20/2020 02:28	<a href="#">WG1446556</a>
(S) o-Terphenyl	67.4	<b>J7</b>		18.0-148		03/20/2020 02:28	<a href="#">WG1446556</a>



Collected date/time: 03/06/20 12:00

L1199114

**Total Solids by Method 2540 G-2011**

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.8		1	03/19/2020 01:04	<a href="#">WG1445648</a>

1 Cp

2 Tc

**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	1580		4.43	55.7	5	03/18/2020 00:53	<a href="#">WG1445291</a>

3 Ss

4 Cn

**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	0.0442	<b>B J</b>	0.0242	0.111	1	03/17/2020 08:16	<a href="#">WG1445120</a>
(S) a,a,a-Trifluorotoluene(FID)	93.0			77.0-120		03/17/2020 08:16	<a href="#">WG1445120</a>

5 Sr

6 Qc

7 Gl

**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		0.000445	0.00111	1	03/17/2020 18:13	<a href="#">WG1445259</a>
Toluene	U		0.00139	0.00557	1	03/17/2020 18:13	<a href="#">WG1445259</a>
Ethylbenzene	U		0.000590	0.00278	1	03/17/2020 18:13	<a href="#">WG1445259</a>
Total Xylenes	U		0.00532	0.00724	1	03/17/2020 18:13	<a href="#">WG1445259</a>
(S) Toluene-d8	104			75.0-131		03/17/2020 18:13	<a href="#">WG1445259</a>
(S) 4-Bromofluorobenzene	99.3			67.0-138		03/17/2020 18:13	<a href="#">WG1445259</a>
(S) 1,2-Dichloroethane-d4	99.1			70.0-130		03/17/2020 18:13	<a href="#">WG1445259</a>

8 Al

9 Sc

**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	416		35.9	89.1	20	03/21/2020 04:09	<a href="#">WG1447675</a>
C28-C40 Oil Range	725		6.10	89.1	20	03/21/2020 04:09	<a href="#">WG1447675</a>
(S) o-Terphenyl	60.3	<b>J7</b>		18.0-148		03/21/2020 04:09	<a href="#">WG1447675</a>

Collected date/time: 03/06/20 12:10

L1199114

**Total Solids by Method 2540 G-2011**

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.0		1	03/19/2020 01:04	<a href="#">WG1445648</a>

**1 Cp**

**2 Tc**

**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	1360		4.28	53.8	5	03/18/2020 01:02	<a href="#">WG1445291</a>

**3 Ss**

**4 Cn**

**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	0.0372	<b>B J</b>	0.0233	0.108	1	03/17/2020 18:54	<a href="#">WG1445660</a>
(S) a,a,a-Trifluorotoluene(FID)	97.3			77.0-120		03/17/2020 18:54	<a href="#">WG1445660</a>

**5 Sr**

**6 Qc**

**7 Gl**

**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		0.000430	0.00108	1	03/17/2020 18:32	<a href="#">WG1445259</a>
Toluene	U		0.00134	0.00538	1	03/17/2020 18:32	<a href="#">WG1445259</a>
Ethylbenzene	U		0.000570	0.00269	1	03/17/2020 18:32	<a href="#">WG1445259</a>
Total Xylenes	U		0.00514	0.00699	1	03/17/2020 18:32	<a href="#">WG1445259</a>
(S) Toluene-d8	107			75.0-131		03/17/2020 18:32	<a href="#">WG1445259</a>
(S) 4-Bromofluorobenzene	102			67.0-138		03/17/2020 18:32	<a href="#">WG1445259</a>
(S) 1,2-Dichloroethane-d4	99.3			70.0-130		03/17/2020 18:32	<a href="#">WG1445259</a>

**8 Al**

**9 Sc**

**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	6.49		1.73	4.30	1	03/21/2020 13:28	<a href="#">WG1447675</a>
C28-C40 Oil Range	7.75		0.295	4.30	1	03/21/2020 13:28	<a href="#">WG1447675</a>
(S) o-Terphenyl	55.6			18.0-148		03/21/2020 13:28	<a href="#">WG1447675</a>

Collected date/time: 03/06/20 12:20

L1199114

**Total Solids by Method 2540 G-2011**

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	91.7		1	03/19/2020 01:04	<a href="#">WG1445648</a>

1 Cp

2 Tc

**Wet Chemistry by Method 300.0**

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	1320		4.34	54.5	5	03/18/2020 01:12	<a href="#">WG1445291</a>

3 Ss

4 Cn

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	0.0379	<b>B J</b>	0.0237	0.109	1	03/17/2020 08:57	<a href="#">WG1445120</a>
(S) a,a,a-Trifluorotoluene(FID)	96.8			77.0-120		03/17/2020 08:57	<a href="#">WG1445120</a>

5 Sr

6 Qc

7 Gl

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000436	0.00109	1	03/17/2020 18:51	<a href="#">WG1445259</a>
Toluene	U		0.00136	0.00545	1	03/17/2020 18:51	<a href="#">WG1445259</a>
Ethylbenzene	U		0.000578	0.00273	1	03/17/2020 18:51	<a href="#">WG1445259</a>
Total Xylenes	U		0.00521	0.00709	1	03/17/2020 18:51	<a href="#">WG1445259</a>
(S) Toluene-d8	105			75.0-131		03/17/2020 18:51	<a href="#">WG1445259</a>
(S) 4-Bromofluorobenzene	98.1			67.0-138		03/17/2020 18:51	<a href="#">WG1445259</a>
(S) 1,2-Dichloroethane-d4	98.2			70.0-130		03/17/2020 18:51	<a href="#">WG1445259</a>

8 Al

9 Sc

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	24.2		1.76	4.36	1	03/21/2020 02:54	<a href="#">WG1447675</a>
C28-C40 Oil Range	44.4		0.299	4.36	1	03/21/2020 02:54	<a href="#">WG1447675</a>
(S) o-Terphenyl	55.3			18.0-148		03/21/2020 02:54	<a href="#">WG1447675</a>

Collected date/time: 03/06/20 13:00

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.7		1	03/19/2020 01:04	<a href="#">WG1445648</a>

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	381		0.840	10.6	1	03/18/2020 01:40	<a href="#">WG1445291</a>

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	0.0440	<b>BJ</b>	0.0229	0.106	1	03/17/2020 09:17	<a href="#">WG1445120</a>
(S) a,a,a-Trifluorotoluene(FID)	96.6			77.0-120		03/17/2020 09:17	<a href="#">WG1445120</a>

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		0.000423	0.00106	1	03/17/2020 19:10	<a href="#">WG1445259</a>
Toluene	U		0.00132	0.00528	1	03/17/2020 19:10	<a href="#">WG1445259</a>
Ethylbenzene	U		0.000560	0.00264	1	03/17/2020 19:10	<a href="#">WG1445259</a>
Total Xylenes	U		0.00505	0.00687	1	03/17/2020 19:10	<a href="#">WG1445259</a>
(S) Toluene-d8	105			75.0-131		03/17/2020 19:10	<a href="#">WG1445259</a>
(S) 4-Bromofluorobenzene	101			67.0-138		03/17/2020 19:10	<a href="#">WG1445259</a>
(S) 1,2-Dichloroethane-d4	98.6			70.0-130		03/17/2020 19:10	<a href="#">WG1445259</a>

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	10.3		1.70	4.23	1	03/21/2020 03:07	<a href="#">WG1447675</a>
C28-C40 Oil Range	30.8		0.289	4.23	1	03/21/2020 03:07	<a href="#">WG1447675</a>
(S) o-Terphenyl	71.3			18.0-148		03/21/2020 03:07	<a href="#">WG1447675</a>

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

Collected date/time: 03/06/20 13:10

L1199114

**Total Solids by Method 2540 G-2011**

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.4		1	03/19/2020 01:04	<a href="#">WG1445648</a>

**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	71.0		0.889	11.2	1	03/18/2020 02:09	<a href="#">WG1445291</a>

**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	0.0439	<b>BJ</b>	0.0243	0.112	1	03/17/2020 09:38	<a href="#">WG1445120</a>
(S) a,a,a-Trifluorotoluene(FID)	96.0			77.0-120		03/17/2020 09:38	<a href="#">WG1445120</a>

**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		0.000447	0.00112	1	03/18/2020 08:16	<a href="#">WG1445267</a>
Toluene	U		0.00140	0.00559	1	03/18/2020 08:16	<a href="#">WG1445267</a>
Ethylbenzene	U		0.000593	0.00280	1	03/18/2020 08:16	<a href="#">WG1445267</a>
Total Xylenes	U		0.00534	0.00727	1	03/18/2020 08:16	<a href="#">WG1445267</a>
(S) Toluene-d8	106			75.0-131		03/18/2020 08:16	<a href="#">WG1445267</a>
(S) 4-Bromofluorobenzene	106			67.0-138		03/18/2020 08:16	<a href="#">WG1445267</a>
(S) 1,2-Dichloroethane-d4	103			70.0-130		03/18/2020 08:16	<a href="#">WG1445267</a>

**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	10.6		1.80	4.47	1	03/21/2020 02:41	<a href="#">WG1447675</a>
C28-C40 Oil Range	31.3		0.306	4.47	1	03/21/2020 02:41	<a href="#">WG1447675</a>
(S) o-Terphenyl	58.7			18.0-148		03/21/2020 02:41	<a href="#">WG1447675</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/06/20 11:00

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	89.2		1	03/19/2020 01:04	<a href="#">WG1445648</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	158		0.891	11.2	1	03/18/2020 02:18	<a href="#">WG1445291</a>

- 5 Sr
- 6 Qc
- 7 Gl

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	0.0381	<u>B J</u>	0.0243	0.112	1	03/17/2020 09:58	<a href="#">WG1445120</a>
(S) a,a,a-Trifluorotoluene(FID)	92.0			77.0-120		03/17/2020 09:58	<a href="#">WG1445120</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000448	0.00112	1	03/18/2020 08:37	<a href="#">WG1445267</a>
Toluene	U		0.00140	0.00561	1	03/18/2020 08:37	<a href="#">WG1445267</a>
Ethylbenzene	U		0.000594	0.00280	1	03/18/2020 08:37	<a href="#">WG1445267</a>
Total Xylenes	U		0.00536	0.00729	1	03/18/2020 08:37	<a href="#">WG1445267</a>
(S) Toluene-d8	105			75.0-131		03/18/2020 08:37	<a href="#">WG1445267</a>
(S) 4-Bromofluorobenzene	93.1			67.0-138		03/18/2020 08:37	<a href="#">WG1445267</a>
(S) 1,2-Dichloroethane-d4	114			70.0-130		03/18/2020 08:37	<a href="#">WG1445267</a>

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	726		36.1	89.7	20	03/21/2020 03:57	<a href="#">WG1447675</a>
C28-C40 Oil Range	1260		6.14	89.7	20	03/21/2020 03:57	<a href="#">WG1447675</a>
(S) o-Terphenyl	82.1	<u>J7</u>		18.0-148		03/21/2020 03:57	<a href="#">WG1447675</a>

Collected date/time: 03/06/20 11:10

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	89.4		1	03/19/2020 01:04	<a href="#">WG1445648</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	40.3		0.889	11.2	1	03/18/2020 02:28	<a href="#">WG1445291</a>

- 5 Sr
- 6 Qc
- 7 Gl

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	0.0422	<u>B</u> <u>J</u>	0.0243	0.112	1	03/17/2020 10:18	<a href="#">WG1445120</a>
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		03/17/2020 10:18	<a href="#">WG1445120</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000447	0.00112	1	03/18/2020 08:58	<a href="#">WG1445267</a>
Toluene	U		0.00140	0.00559	1	03/18/2020 08:58	<a href="#">WG1445267</a>
Ethylbenzene	U		0.000593	0.00280	1	03/18/2020 08:58	<a href="#">WG1445267</a>
Total Xylenes	U		0.00535	0.00727	1	03/18/2020 08:58	<a href="#">WG1445267</a>
(S) Toluene-d8	105			75.0-131		03/18/2020 08:58	<a href="#">WG1445267</a>
(S) 4-Bromofluorobenzene	92.9			67.0-138		03/18/2020 08:58	<a href="#">WG1445267</a>
(S) 1,2-Dichloroethane-d4	113			70.0-130		03/18/2020 08:58	<a href="#">WG1445267</a>

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	2.08	<u>J</u>	1.80	4.47	1	03/21/2020 13:02	<a href="#">WG1447675</a>
C28-C40 Oil Range	2.72	<u>J</u>	0.306	4.47	1	03/21/2020 13:02	<a href="#">WG1447675</a>
(S) o-Terphenyl	48.9			18.0-148		03/21/2020 13:02	<a href="#">WG1447675</a>

Collected date/time: 03/06/20 11:20

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	98.0		1	03/19/2020 01:04	<a href="#">WG1445648</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	69.4		0.811	10.2	1	03/18/2020 02:37	<a href="#">WG1445291</a>

- 5 Sr
- 6 Qc
- 7 Gl

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	0.189	B	0.0221	0.102	1	03/17/2020 10:39	<a href="#">WG1445120</a>
(S) a,a,a-Trifluorotoluene(FID)	96.3			77.0-120		03/17/2020 10:39	<a href="#">WG1445120</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000408	0.00102	1	03/18/2020 09:18	<a href="#">WG1445267</a>
Toluene	U		0.00128	0.00510	1	03/18/2020 09:18	<a href="#">WG1445267</a>
Ethylbenzene	U		0.000541	0.00255	1	03/18/2020 09:18	<a href="#">WG1445267</a>
Total Xylenes	U		0.00488	0.00663	1	03/18/2020 09:18	<a href="#">WG1445267</a>
(S) Toluene-d8	108			75.0-131		03/18/2020 09:18	<a href="#">WG1445267</a>
(S) 4-Bromofluorobenzene	94.4			67.0-138		03/18/2020 09:18	<a href="#">WG1445267</a>
(S) 1,2-Dichloroethane-d4	97.8			70.0-130		03/18/2020 09:18	<a href="#">WG1445267</a>

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	U		1.64	4.08	1	03/21/2020 00:48	<a href="#">WG1447675</a>
C28-C40 Oil Range	5.53		0.280	4.08	1	03/21/2020 00:48	<a href="#">WG1447675</a>
(S) o-Terphenyl	61.1			18.0-148		03/21/2020 00:48	<a href="#">WG1447675</a>



Collected date/time: 03/06/20 11:30

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	96.7		1	03/19/2020 00:54	<a href="#">WG1445649</a>

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	248		0.822	10.3	1	03/18/2020 02:47	<a href="#">WG1445291</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	0.0414	<b>B J</b>	0.0224	0.103	1	03/17/2020 10:59	<a href="#">WG1445120</a>
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		03/17/2020 10:59	<a href="#">WG1445120</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000414	0.00103	1	03/18/2020 09:39	<a href="#">WG1445267</a>
Toluene	U		0.00129	0.00517	1	03/18/2020 09:39	<a href="#">WG1445267</a>
Ethylbenzene	U		0.000548	0.00259	1	03/18/2020 09:39	<a href="#">WG1445267</a>
Total Xylenes	U		0.00494	0.00672	1	03/18/2020 09:39	<a href="#">WG1445267</a>
(S) Toluene-d8	107			75.0-131		03/18/2020 09:39	<a href="#">WG1445267</a>
(S) 4-Bromofluorobenzene	94.9			67.0-138		03/18/2020 09:39	<a href="#">WG1445267</a>
(S) 1,2-Dichloroethane-d4	103			70.0-130		03/18/2020 09:39	<a href="#">WG1445267</a>

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	U		1.66	4.14	1	03/21/2020 13:15	<a href="#">WG1447675</a>
C28-C40 Oil Range	2.71	<b>J</b>	0.283	4.14	1	03/21/2020 13:15	<a href="#">WG1447675</a>
(S) o-Terphenyl	63.0			18.0-148		03/21/2020 13:15	<a href="#">WG1447675</a>

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

Collected date/time: 03/06/20 11:50

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.1		1	03/19/2020 00:54	<a href="#">WG1445649</a>

1 Cp

2 Tc

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	4360		17.1	215	20	03/18/2020 02:57	<a href="#">WG1445291</a>

3 Ss

4 Cn

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	0.0496	<b>B J</b>	0.0233	0.107	1	03/17/2020 19:15	<a href="#">WG1445660</a>
(S) a,a,a-Trifluorotoluene(FID)	94.7			77.0-120		03/17/2020 19:15	<a href="#">WG1445660</a>

5 Sr

6 Qc

7 Gl

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		0.000429	0.00107	1	03/18/2020 10:00	<a href="#">WG1445267</a>
Toluene	U		0.00134	0.00537	1	03/18/2020 10:00	<a href="#">WG1445267</a>
Ethylbenzene	U		0.000569	0.00268	1	03/18/2020 10:00	<a href="#">WG1445267</a>
Total Xylenes	U		0.00513	0.00698	1	03/18/2020 10:00	<a href="#">WG1445267</a>
(S) Toluene-d8	107			75.0-131		03/18/2020 10:00	<a href="#">WG1445267</a>
(S) 4-Bromofluorobenzene	92.8			67.0-138		03/18/2020 10:00	<a href="#">WG1445267</a>
(S) 1,2-Dichloroethane-d4	101			70.0-130		03/18/2020 10:00	<a href="#">WG1445267</a>

8 Al

9 Sc

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	176		34.6	85.9	20	03/21/2020 03:32	<a href="#">WG1447675</a>
C28-C40 Oil Range	390		5.88	85.9	20	03/21/2020 03:32	<a href="#">WG1447675</a>
(S) o-Terphenyl	77.6	<b>J7</b>		18.0-148		03/21/2020 03:32	<a href="#">WG1447675</a>

Collected date/time: 03/06/20 12:00

L1199114

**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	<a href="#">WG1445649</a>

1 Cp

2 Tc

**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	<a href="#">WG1445291</a>

3 Ss

4 Cn

**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>B J</b>	0.0232	0.107	1	03/17/2020 19:35	<a href="#">WG1445660</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	93.4			77.0-120		03/17/2020 19:35	<a href="#">WG1445660</a>

5 Sr

6 Qc

7 Gl

**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	<a href="#">WG1445267</a>
Toluene	U		0.00134	0.00535	1	03/18/2020 10:21	<a href="#">WG1445267</a>
Ethylbenzene	U		0.000567	0.00268	1	03/18/2020 10:21	<a href="#">WG1445267</a>
Total Xylenes	U		0.00512	0.00696	1	03/18/2020 10:21	<a href="#">WG1445267</a>
(S) <i>Toluene-d8</i>	107			75.0-131		03/18/2020 10:21	<a href="#">WG1445267</a>
(S) <i>4-Bromofluorobenzene</i>	95.2			67.0-138		03/18/2020 10:21	<a href="#">WG1445267</a>
(S) <i>1,2-Dichloroethane-d4</i>	100			70.0-130		03/18/2020 10:21	<a href="#">WG1445267</a>

8 Al

9 Sc

**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	<a href="#">WG1447675</a>
C28-C40 Oil Range	172		2.93	42.8	10	03/21/2020 03:44	<a href="#">WG1447675</a>
(S) <i>o</i> -Terphenyl	35.5			18.0-148		03/21/2020 03:44	<a href="#">WG1447675</a>

Collected date/time: 03/06/20 12:10

L1199114

**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	<a href="#">WG1445649</a>

1 Cp

2 Tc

**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	<a href="#">WG1445291</a>

3 Ss

4 Cn

**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>B J</b>	0.0233	0.107	1	03/20/2020 16:07	<a href="#">WG1447538</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	98.6			77.0-120		03/20/2020 16:07	<a href="#">WG1447538</a>

5 Sr

6 Qc

7 Gl

**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	<a href="#">WG1445267</a>
Toluene	U		0.00134	0.00536	1	03/18/2020 10:41	<a href="#">WG1445267</a>
Ethylbenzene	U		0.000568	0.00268	1	03/18/2020 10:41	<a href="#">WG1445267</a>
Total Xylenes	U		0.00512	0.00697	1	03/18/2020 10:41	<a href="#">WG1445267</a>
(S) <i>Toluene-d8</i>	107			75.0-131		03/18/2020 10:41	<a href="#">WG1445267</a>
(S) <i>4-Bromofluorobenzene</i>	93.4			67.0-138		03/18/2020 10:41	<a href="#">WG1445267</a>
(S) <i>1,2-Dichloroethane-d4</i>	101			70.0-130		03/18/2020 10:41	<a href="#">WG1445267</a>

8 Al

9 Sc

**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	<a href="#">WG1447675</a>
C28-C40 Oil Range	13.7		0.294	4.29	1	03/21/2020 01:00	<a href="#">WG1447675</a>
(S) <i>o</i> -Terphenyl	53.5			18.0-148		03/21/2020 01:00	<a href="#">WG1447675</a>

Collected date/time: 03/06/20 12:20

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.2		1	03/19/2020 00:54	<a href="#">WG1445649</a>

1 Cp

2 Tc

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	4830		16.9	212	20	03/18/2020 03:44	<a href="#">WG1445291</a>

3 Ss

4 Cn

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	0.0665	<b>B J</b>	0.0230	0.106	1	03/17/2020 07:31	<a href="#">WG1445128</a>
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		03/17/2020 07:31	<a href="#">WG1445128</a>

5 Sr

6 Qc

7 Gl

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		0.000424	0.00106	1	03/18/2020 11:02	<a href="#">WG1445267</a>
Toluene	U		0.00133	0.00531	1	03/18/2020 11:02	<a href="#">WG1445267</a>
Ethylbenzene	U		0.000562	0.00265	1	03/18/2020 11:02	<a href="#">WG1445267</a>
Total Xylenes	U		0.00507	0.00690	1	03/18/2020 11:02	<a href="#">WG1445267</a>
(S) Toluene-d8	105			75.0-131		03/18/2020 11:02	<a href="#">WG1445267</a>
(S) 4-Bromofluorobenzene	91.9			67.0-138		03/18/2020 11:02	<a href="#">WG1445267</a>
(S) 1,2-Dichloroethane-d4	103			70.0-130		03/18/2020 11:02	<a href="#">WG1445267</a>

8 Al

9 Sc

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	6.42		1.71	4.24	1	03/21/2020 01:13	<a href="#">WG1447675</a>
C28-C40 Oil Range	12.8		0.291	4.24	1	03/21/2020 01:13	<a href="#">WG1447675</a>
(S) o-Terphenyl	61.2			18.0-148		03/21/2020 01:13	<a href="#">WG1447675</a>

Collected date/time: 03/06/20 13:00

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.4		1	03/19/2020 00:54	<a href="#">WG1445649</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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	295		0.842	10.6	1	03/18/2020 03:54	<a href="#">WG1445291</a>

- 5 Sr
- 6 Qc
- 7 Gl

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	0.0606	<b>B J</b>	0.0230	0.106	1	03/17/2020 07:53	<a href="#">WG1445128</a>
(S) a,a,a-Trifluorotoluene(FID)	95.0			77.0-120		03/17/2020 07:53	<a href="#">WG1445128</a>

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		0.000424	0.00106	1	03/18/2020 11:23	<a href="#">WG1445267</a>
Toluene	U		0.00132	0.00530	1	03/18/2020 11:23	<a href="#">WG1445267</a>
Ethylbenzene	U		0.000561	0.00265	1	03/18/2020 11:23	<a href="#">WG1445267</a>
Total Xylenes	U		0.00506	0.00689	1	03/18/2020 11:23	<a href="#">WG1445267</a>
(S) Toluene-d8	91.5			75.0-131		03/18/2020 11:23	<a href="#">WG1445267</a>
(S) 4-Bromofluorobenzene	95.3			67.0-138		03/18/2020 11:23	<a href="#">WG1445267</a>
(S) 1,2-Dichloroethane-d4	116			70.0-130		03/18/2020 11:23	<a href="#">WG1445267</a>

- 8 Al
- 9 Sc

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	949		85.3	212	50	03/21/2020 03:19	<a href="#">WG1447675</a>
C28-C40 Oil Range	1920		14.5	212	50	03/21/2020 03:19	<a href="#">WG1447675</a>
(S) o-Terphenyl	77.8	<b>J7</b>		18.0-148		03/21/2020 03:19	<a href="#">WG1447675</a>

Collected date/time: 03/06/20 13:10

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.4		1	03/19/2020 00:54	<a href="#">WG1445649</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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	302		0.825	10.4	1	03/18/2020 04:03	<a href="#">WG1445291</a>

- 5 Sr
- 6 Qc
- 7 Gl

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	0.0505	<u>B J</u>	0.0225	0.104	1	03/17/2020 08:25	<a href="#">WG1445128</a>
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		03/17/2020 08:25	<a href="#">WG1445128</a>

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		0.000415	0.00104	1	03/18/2020 11:43	<a href="#">WG1445267</a>
Toluene	U		0.00130	0.00519	1	03/18/2020 11:43	<a href="#">WG1445267</a>
Ethylbenzene	U		0.000550	0.00259	1	03/18/2020 11:43	<a href="#">WG1445267</a>
Total Xylenes	U		0.00496	0.00675	1	03/18/2020 11:43	<a href="#">WG1445267</a>
(S) Toluene-d8	89.9			75.0-131		03/18/2020 11:43	<a href="#">WG1445267</a>
(S) 4-Bromofluorobenzene	89.3			67.0-138		03/18/2020 11:43	<a href="#">WG1445267</a>
(S) 1,2-Dichloroethane-d4	110			70.0-130		03/18/2020 11:43	<a href="#">WG1445267</a>

- 8 Al
- 9 Sc

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	1.94	<u>J</u>	1.67	4.15	1	03/21/2020 01:26	<a href="#">WG1447675</a>
C28-C40 Oil Range	7.12		0.284	4.15	1	03/21/2020 01:26	<a href="#">WG1447675</a>
(S) o-Terphenyl	69.6			18.0-148		03/21/2020 01:26	<a href="#">WG1447675</a>

Collected date/time: 03/09/20 11:00

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.9		1	03/19/2020 00:54	<a href="#">WG1445649</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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	2.92	<u>BJ</u>	0.804	10.1	1	03/18/2020 00:58	<a href="#">WG1445292</a>

- 5 Sr
- 6 Qc
- 7 Gl

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	0.0670	<u>BJ</u>	0.0219	0.101	1	03/17/2020 09:13	<a href="#">WG1445128</a>
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120		03/17/2020 09:13	<a href="#">WG1445128</a>

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		0.000405	0.00101	1	03/18/2020 12:04	<a href="#">WG1445267</a>
Toluene	U		0.00126	0.00506	1	03/18/2020 12:04	<a href="#">WG1445267</a>
Ethylbenzene	U		0.000536	0.00253	1	03/18/2020 12:04	<a href="#">WG1445267</a>
Total Xylenes	U		0.00483	0.00657	1	03/18/2020 12:04	<a href="#">WG1445267</a>
(S) Toluene-d8	101			75.0-131		03/18/2020 12:04	<a href="#">WG1445267</a>
(S) 4-Bromofluorobenzene	92.1			67.0-138		03/18/2020 12:04	<a href="#">WG1445267</a>
(S) 1,2-Dichloroethane-d4	98.6			70.0-130		03/18/2020 12:04	<a href="#">WG1445267</a>

- 8 Al
- 9 Sc

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	U		1.63	4.05	1	03/21/2020 01:38	<a href="#">WG1447675</a>
C28-C40 Oil Range	7.73		0.277	4.05	1	03/21/2020 01:38	<a href="#">WG1447675</a>
(S) o-Terphenyl	60.1			18.0-148		03/21/2020 01:38	<a href="#">WG1447675</a>



Collected date/time: 03/09/20 11:10

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.6		1	03/19/2020 00:54	<a href="#">WG1445649</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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	3.32	<u>B</u> <u>J</u>	0.823	10.3	1	03/18/2020 01:51	<a href="#">WG1445292</a>

- 5 Sr
- 6 Qc
- 7 Gl

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	0.0556	<u>B</u> <u>J</u>	0.0225	0.103	1	03/17/2020 09:57	<a href="#">WG1445128</a>
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		03/17/2020 09:57	<a href="#">WG1445128</a>

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		0.000414	0.00103	1	03/18/2020 12:24	<a href="#">WG1445267</a>
Toluene	U		0.00129	0.00517	1	03/18/2020 12:24	<a href="#">WG1445267</a>
Ethylbenzene	U		0.000549	0.00259	1	03/18/2020 12:24	<a href="#">WG1445267</a>
Total Xylenes	U		0.00495	0.00673	1	03/18/2020 12:24	<a href="#">WG1445267</a>
(S) Toluene-d8	124			75.0-131		03/18/2020 12:24	<a href="#">WG1445267</a>
(S) 4-Bromofluorobenzene	94.6			67.0-138		03/18/2020 12:24	<a href="#">WG1445267</a>
(S) 1,2-Dichloroethane-d4	115			70.0-130		03/18/2020 12:24	<a href="#">WG1445267</a>

- 8 Al
- 9 Sc

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	3.79	<u>J</u>	1.67	4.14	1	03/21/2020 02:29	<a href="#">WG1447675</a>
C28-C40 Oil Range	18.2		0.284	4.14	1	03/21/2020 02:29	<a href="#">WG1447675</a>
(S) o-Terphenyl	72.1			18.0-148		03/21/2020 02:29	<a href="#">WG1447675</a>

Collected date/time: 03/09/20 11:20

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.6		1	03/19/2020 00:54	<a href="#">WG1445649</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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	2.67	<u>B J</u>	0.806	10.1	1	03/18/2020 02:09	<a href="#">WG1445292</a>

- 5 Sr
- 6 Qc
- 7 Gl

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	0.0675	<u>B J</u>	0.0220	0.101	1	03/17/2020 10:20	<a href="#">WG1445128</a>
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		03/17/2020 10:20	<a href="#">WG1445128</a>

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		0.000406	0.00101	1	03/18/2020 12:45	<a href="#">WG1445267</a>
Toluene	U		0.00127	0.00507	1	03/18/2020 12:45	<a href="#">WG1445267</a>
Ethylbenzene	U		0.000537	0.00253	1	03/18/2020 12:45	<a href="#">WG1445267</a>
Total Xylenes	U		0.00485	0.00659	1	03/18/2020 12:45	<a href="#">WG1445267</a>
(S) Toluene-d8	105			75.0-131		03/18/2020 12:45	<a href="#">WG1445267</a>
(S) 4-Bromofluorobenzene	91.0			67.0-138		03/18/2020 12:45	<a href="#">WG1445267</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		03/18/2020 12:45	<a href="#">WG1445267</a>

- 8 Al
- 9 Sc

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	1.91	<u>J</u>	1.63	4.06	1	03/21/2020 01:51	<a href="#">WG1447675</a>
C28-C40 Oil Range	8.03		0.278	4.06	1	03/21/2020 01:51	<a href="#">WG1447675</a>
(S) o-Terphenyl	67.3			18.0-148		03/21/2020 01:51	<a href="#">WG1447675</a>

Collected date/time: 03/09/20 11:30

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.0		1	03/19/2020 00:43	<a href="#">WG1445651</a>

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	3.96	<u>B</u> <u>J</u>	0.828	10.4	1	03/18/2020 02:27	<a href="#">WG1445292</a>

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	0.0729	<u>B</u> <u>J</u>	0.0226	0.104	1	03/17/2020 10:42	<a href="#">WG1445128</a>
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		03/17/2020 10:42	<a href="#">WG1445128</a>

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		0.000417	0.00104	1	03/18/2020 13:06	<a href="#">WG1445267</a>
Toluene	U		0.00130	0.00521	1	03/18/2020 13:06	<a href="#">WG1445267</a>
Ethylbenzene	U		0.000552	0.00261	1	03/18/2020 13:06	<a href="#">WG1445267</a>
Total Xylenes	U		0.00498	0.00677	1	03/18/2020 13:06	<a href="#">WG1445267</a>
(S) Toluene-d8	105			75.0-131		03/18/2020 13:06	<a href="#">WG1445267</a>
(S) 4-Bromofluorobenzene	89.9			67.0-138		03/18/2020 13:06	<a href="#">WG1445267</a>
(S) 1,2-Dichloroethane-d4	115			70.0-130		03/18/2020 13:06	<a href="#">WG1445267</a>

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	2.15	<u>J</u>	1.68	4.17	1	03/21/2020 02:03	<a href="#">WG1447675</a>
C28-C40 Oil Range	8.49		0.286	4.17	1	03/21/2020 02:03	<a href="#">WG1447675</a>
(S) o-Terphenyl	71.7			18.0-148		03/21/2020 02:03	<a href="#">WG1447675</a>

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

Collected date/time: 03/09/20 11:50

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	91.9		1	03/19/2020 00:43	<a href="#">WG1445651</a>

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	838		4.33	54.4	5	03/18/2020 02:45	<a href="#">WG1445292</a>

3 Ss

4 Cn

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	0.0648	<b>B J</b>	0.0236	0.109	1	03/17/2020 11:03	<a href="#">WG1445128</a>
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120		03/17/2020 11:03	<a href="#">WG1445128</a>

5 Sr

6 Qc

7 Gl

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000435	0.00109	1	03/18/2020 13:26	<a href="#">WG1445267</a>
Toluene	U		0.00136	0.00544	1	03/18/2020 13:26	<a href="#">WG1445267</a>
Ethylbenzene	U		0.000577	0.00272	1	03/18/2020 13:26	<a href="#">WG1445267</a>
Total Xylenes	U		0.00520	0.00707	1	03/18/2020 13:26	<a href="#">WG1445267</a>
(S) Toluene-d8	103			75.0-131		03/18/2020 13:26	<a href="#">WG1445267</a>
(S) 4-Bromofluorobenzene	91.1			67.0-138		03/18/2020 13:26	<a href="#">WG1445267</a>
(S) 1,2-Dichloroethane-d4	114			70.0-130		03/18/2020 13:26	<a href="#">WG1445267</a>

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	20.4		1.75	4.35	1	03/21/2020 02:16	<a href="#">WG1447675</a>
C28-C40 Oil Range	36.3		0.298	4.35	1	03/21/2020 02:16	<a href="#">WG1447675</a>
(S) o-Terphenyl	50.5			18.0-148		03/21/2020 02:16	<a href="#">WG1447675</a>

Collected date/time: 03/09/20 12:20

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.6		1	03/19/2020 00:43	<a href="#">WG1445651</a>

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	432		0.832	10.5	1	03/18/2020 03:03	<a href="#">WG1445292</a>

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		0.0227	0.105	1	03/17/2020 11:14	<a href="#">WG1445199</a>
(S) a,a,a-Trifluorotoluene(FID)	98.9			77.0-120		03/17/2020 11:14	<a href="#">WG1445199</a>

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		0.000419	0.00105	1	03/18/2020 13:47	<a href="#">WG1445267</a>
Toluene	U		0.00131	0.00523	1	03/18/2020 13:47	<a href="#">WG1445267</a>
Ethylbenzene	U		0.000555	0.00262	1	03/18/2020 13:47	<a href="#">WG1445267</a>
Total Xylenes	U		0.00500	0.00680	1	03/18/2020 13:47	<a href="#">WG1445267</a>
(S) Toluene-d8	103			75.0-131		03/18/2020 13:47	<a href="#">WG1445267</a>
(S) 4-Bromofluorobenzene	90.9			67.0-138		03/18/2020 13:47	<a href="#">WG1445267</a>
(S) 1,2-Dichloroethane-d4	111			70.0-130		03/18/2020 13:47	<a href="#">WG1445267</a>

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	U		1.68	4.19	1	03/20/2020 00:31	<a href="#">WG1447038</a>
C28-C40 Oil Range	1.57	J	0.287	4.19	1	03/20/2020 00:31	<a href="#">WG1447038</a>
(S) o-Terphenyl	72.0			18.0-148		03/20/2020 00:31	<a href="#">WG1447038</a>

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

Collected date/time: 03/09/20 13:00

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.5		1	03/19/2020 00:43	<a href="#">WG1445651</a>

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	2690		8.78	110	10	03/18/2020 03:57	<a href="#">WG1445292</a>

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		0.0240	0.110	1	03/17/2020 11:38	<a href="#">WG1445199</a>
(S) a,a,a-Trifluorotoluene(FID)	99.9			77.0-120		03/17/2020 11:38	<a href="#">WG1445199</a>

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		0.000442	0.00110	1	03/18/2020 14:07	<a href="#">WG1445267</a>
Toluene	U		0.00138	0.00552	1	03/18/2020 14:07	<a href="#">WG1445267</a>
Ethylbenzene	U		0.000585	0.00276	1	03/18/2020 14:07	<a href="#">WG1445267</a>
Total Xylenes	U		0.00528	0.00718	1	03/18/2020 14:07	<a href="#">WG1445267</a>
(S) Toluene-d8	105			75.0-131		03/18/2020 14:07	<a href="#">WG1445267</a>
(S) 4-Bromofluorobenzene	91.4			67.0-138		03/18/2020 14:07	<a href="#">WG1445267</a>
(S) 1,2-Dichloroethane-d4	113			70.0-130		03/18/2020 14:07	<a href="#">WG1445267</a>

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	U		1.78	4.42	1	03/20/2020 00:45	<a href="#">WG1447038</a>
C28-C40 Oil Range	1.60	J	0.303	4.42	1	03/20/2020 00:45	<a href="#">WG1447038</a>
(S) o-Terphenyl	72.6			18.0-148		03/20/2020 00:45	<a href="#">WG1447038</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/10/20 10:50

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.6		1	03/19/2020 00:43	<a href="#">WG1445651</a>

1 Cp

2 Tc

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	3030		8.50	107	10	03/18/2020 04:15	<a href="#">WG1445292</a>

3 Ss

4 Cn

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		0.0232	0.107	1	03/17/2020 12:14	<a href="#">WG1445199</a>
(S) a,a,a-Trifluorotoluene(FID)	99.2			77.0-120		03/17/2020 12:14	<a href="#">WG1445199</a>

5 Sr

6 Qc

7 Gl

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		0.000428	0.00107	1	03/18/2020 14:28	<a href="#">WG1445267</a>
Toluene	U		0.00134	0.00534	1	03/18/2020 14:28	<a href="#">WG1445267</a>
Ethylbenzene	U		0.000567	0.00267	1	03/18/2020 14:28	<a href="#">WG1445267</a>
Total Xylenes	U		0.00511	0.00695	1	03/18/2020 14:28	<a href="#">WG1445267</a>
(S) Toluene-d8	107			75.0-131		03/18/2020 14:28	<a href="#">WG1445267</a>
(S) 4-Bromofluorobenzene	93.2			67.0-138		03/18/2020 14:28	<a href="#">WG1445267</a>
(S) 1,2-Dichloroethane-d4	99.1			70.0-130		03/18/2020 14:28	<a href="#">WG1445267</a>

8 Al

9 Sc

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	2.46	J	1.72	4.28	1	03/20/2020 10:45	<a href="#">WG1447038</a>
C28-C40 Oil Range	10.8		0.293	4.28	1	03/20/2020 10:45	<a href="#">WG1447038</a>
(S) o-Terphenyl	77.0			18.0-148		03/20/2020 10:45	<a href="#">WG1447038</a>

Collected date/time: 03/10/20 11:00

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.2		1	03/19/2020 00:43	<a href="#">WG1445651</a>

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	42.6		0.853	10.7	1	03/18/2020 04:32	<a href="#">WG1445292</a>

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		0.0233	0.107	1	03/18/2020 17:19	<a href="#">WG1446150</a>
(S) a,a,a-Trifluorotoluene(FID)	97.0			77.0-120		03/18/2020 17:19	<a href="#">WG1446150</a>

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	J3	0.000429	0.00107	1	03/18/2020 14:48	<a href="#">WG1445267</a>
Toluene	U	J3	0.00134	0.00537	1	03/18/2020 14:48	<a href="#">WG1445267</a>
Ethylbenzene	U	J3	0.000569	0.00268	1	03/18/2020 14:48	<a href="#">WG1445267</a>
Total Xylenes	U	J3	0.00513	0.00697	1	03/18/2020 14:48	<a href="#">WG1445267</a>
(S) Toluene-d8	107			75.0-131		03/18/2020 14:48	<a href="#">WG1445267</a>
(S) 4-Bromofluorobenzene	93.1			67.0-138		03/18/2020 14:48	<a href="#">WG1445267</a>
(S) 1,2-Dichloroethane-d4	107			70.0-130		03/18/2020 14:48	<a href="#">WG1445267</a>

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	U		1.73	4.29	1	03/20/2020 10:59	<a href="#">WG1447038</a>
C28-C40 Oil Range	5.92		0.294	4.29	1	03/20/2020 10:59	<a href="#">WG1447038</a>
(S) o-Terphenyl	68.7			18.0-148		03/20/2020 10:59	<a href="#">WG1447038</a>

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



Collected date/time: 03/10/20 11:10

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.5		1	03/19/2020 00:43	<a href="#">WG1445651</a>

1 Cp

2 Tc

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	3.39	<u>BJ</u>	0.833	10.5	1	03/18/2020 05:26	<a href="#">WG1445292</a>

3 Ss

4 Cn

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		0.0227	0.105	1	03/17/2020 13:02	<a href="#">WG1445199</a>
(S) a,a,a-Trifluorotoluene(FID)	99.1			77.0-120		03/17/2020 13:02	<a href="#">WG1445199</a>

5 Sr

6 Qc

7 Gl

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		0.000419	0.00105	1	03/17/2020 17:30	<a href="#">WG1445419</a>
Toluene	U		0.00131	0.00524	1	03/17/2020 17:30	<a href="#">WG1445419</a>
Ethylbenzene	U		0.000555	0.00262	1	03/17/2020 17:30	<a href="#">WG1445419</a>
Total Xylenes	U		0.00501	0.00681	1	03/17/2020 17:30	<a href="#">WG1445419</a>
(S) Toluene-d8	102			75.0-131		03/17/2020 17:30	<a href="#">WG1445419</a>
(S) 4-Bromofluorobenzene	100			67.0-138		03/17/2020 17:30	<a href="#">WG1445419</a>
(S) 1,2-Dichloroethane-d4	99.1			70.0-130		03/17/2020 17:30	<a href="#">WG1445419</a>

8 Al

9 Sc

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	8.83		1.69	4.19	1	03/20/2020 10:32	<a href="#">WG1447038</a>
C28-C40 Oil Range	28.8		0.287	4.19	1	03/20/2020 10:32	<a href="#">WG1447038</a>
(S) o-Terphenyl	73.9			18.0-148		03/20/2020 10:32	<a href="#">WG1447038</a>

Collected date/time: 03/10/20 11:20

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.5		1	03/19/2020 00:43	<a href="#">WG1445651</a>

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	45.7		0.850	10.7	1	03/18/2020 05:44	<a href="#">WG1445292</a>

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		0.0232	0.107	1	03/17/2020 13:26	<a href="#">WG1445199</a>
(S) a,a,a-Trifluorotoluene(FID)	100			77.0-120		03/17/2020 13:26	<a href="#">WG1445199</a>

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		0.000428	0.00107	1	03/17/2020 17:49	<a href="#">WG1445419</a>
Toluene	U		0.00134	0.00535	1	03/17/2020 17:49	<a href="#">WG1445419</a>
Ethylbenzene	U		0.000567	0.00267	1	03/17/2020 17:49	<a href="#">WG1445419</a>
Total Xylenes	U		0.00511	0.00695	1	03/17/2020 17:49	<a href="#">WG1445419</a>
(S) Toluene-d8	101			75.0-131		03/17/2020 17:49	<a href="#">WG1445419</a>
(S) 4-Bromofluorobenzene	101			67.0-138		03/17/2020 17:49	<a href="#">WG1445419</a>
(S) 1,2-Dichloroethane-d4	97.3			70.0-130		03/17/2020 17:49	<a href="#">WG1445419</a>

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	2.82	J	1.72	4.28	1	03/20/2020 10:18	<a href="#">WG1447038</a>
C28-C40 Oil Range	16.5		0.293	4.28	1	03/20/2020 10:18	<a href="#">WG1447038</a>
(S) o-Terphenyl	76.7			18.0-148		03/20/2020 10:18	<a href="#">WG1447038</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/10/20 11:30

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	82.9		1	03/19/2020 00:43	<a href="#">WG1445651</a>

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	225		4.80	60.3	5	03/18/2020 06:02	<a href="#">WG1445292</a>

3 Ss

4 Cn

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	0.177		0.0262	0.121	1	03/17/2020 13:50	<a href="#">WG1445199</a>
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		03/17/2020 13:50	<a href="#">WG1445199</a>

5 Sr

6 Qc

7 Gl

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000483	0.00121	1	03/17/2020 18:08	<a href="#">WG1445419</a>
Toluene	U		0.00151	0.00603	1	03/17/2020 18:08	<a href="#">WG1445419</a>
Ethylbenzene	U		0.000640	0.00302	1	03/17/2020 18:08	<a href="#">WG1445419</a>
Total Xylenes	U		0.00577	0.00784	1	03/17/2020 18:08	<a href="#">WG1445419</a>
(S) Toluene-d8	103			75.0-131		03/17/2020 18:08	<a href="#">WG1445419</a>
(S) 4-Bromofluorobenzene	99.5			67.0-138		03/17/2020 18:08	<a href="#">WG1445419</a>
(S) 1,2-Dichloroethane-d4	98.2			70.0-130		03/17/2020 18:08	<a href="#">WG1445419</a>

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	11.8		1.94	4.83	1	03/20/2020 00:58	<a href="#">WG1447038</a>
C28-C40 Oil Range	14.2		0.331	4.83	1	03/20/2020 00:58	<a href="#">WG1447038</a>
(S) o-Terphenyl	45.0			18.0-148		03/20/2020 00:58	<a href="#">WG1447038</a>

Collected date/time: 03/10/20 12:10

L1199114

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.1		1	03/19/2020 00:43	<a href="#">WG1445651</a>

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	545		0.836	10.5	1	03/18/2020 06:20	<a href="#">WG1445292</a>

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	0.0631	<u>B J</u>	0.0228	0.105	1	03/17/2020 09:35	<a href="#">WG1445128</a>
(S) a,a,a-Trifluorotoluene(FID)	103			77.0-120		03/17/2020 09:35	<a href="#">WG1445128</a>

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		0.000420	0.00105	1	03/17/2020 18:27	<a href="#">WG1445419</a>
Toluene	U		0.00131	0.00526	1	03/17/2020 18:27	<a href="#">WG1445419</a>
Ethylbenzene	U		0.000557	0.00263	1	03/17/2020 18:27	<a href="#">WG1445419</a>
Total Xylenes	U		0.00502	0.00683	1	03/17/2020 18:27	<a href="#">WG1445419</a>
(S) Toluene-d8	102			75.0-131		03/17/2020 18:27	<a href="#">WG1445419</a>
(S) 4-Bromofluorobenzene	101			67.0-138		03/17/2020 18:27	<a href="#">WG1445419</a>
(S) 1,2-Dichloroethane-d4	97.9			70.0-130		03/17/2020 18:27	<a href="#">WG1445419</a>

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	U		1.69	4.20	1	03/20/2020 09:52	<a href="#">WG1447038</a>
C28-C40 Oil Range	0.557	<u>J</u>	0.288	4.20	1	03/20/2020 09:52	<a href="#">WG1447038</a>
(S) o-Terphenyl	79.6			18.0-148		03/20/2020 09:52	<a href="#">WG1447038</a>

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

W01445642  
Total Solids by Method 2540 G-2011

[L1199114-01,02,03,04,05,06,07,08](#)

### Method Blank (MB)

(MB) R3510267-1 03/19/20 01:48

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

### 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	

Total Solids by Method 2540 G-2011

[L1199114-09,10,11,12,13,14,15,16,17,18](#)

Method Blank (MB)

(MB) R3510263-1 03/19/20 01:36

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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	

Total Solids by Method 2540 G-2011

[L1199114-19,20,21,22,23,24,25,26,27](#)

Method Blank (MB)

(MB) R3510262-1 03/19/20 01:27

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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	

Total Solids by Method 2540 G-2011

[L1199114-28,29,30,31,32,33,34,35,36,37](#)

Method Blank (MB)

(MB) R3510259-1 03/19/20 01:04

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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	



Total Solids by Method 2540 G-2011

[L1199114-38,39,40,41,42,43,44,45,46,47](#)

Method Blank (MB)

(MB) R3510249-1 03/19/20 00:54

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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	

Total Solids by Method 2540 G-2011

[L1199114-48,49,50,51,52,53,54,55,56,57](#)

### Method Blank (MB)

(MB) R3510245-1 03/19/20 00:43

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.0160			

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

### 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	

Wet Chemistry by Method 300.0

[L1199114-01,02,03,04,05](#)

Method Blank (MB)

(MB) R3510072-1 03/18/20 16:03

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	1.57	<u>J</u>	0.795	10.0

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

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)	DUP Result (dry)	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	DUP Result	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	LCS Result	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	Original Result	MS Result	MSD Result	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	<u>E V</u>	<u>E V</u>	0.270	20

Wet Chemistry by Method 300.0

[L1199114-06,07,08,09,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25](#)

Method Blank (MB)

(MB) R3509981-1 03/18/20 10:14

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		0.795	10.0

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

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)	DUP Result (dry)	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)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	3.69	3.75	1	1.62	↓	20

Laboratory Control Sample (LCS)

(LCS) R3509981-2 03/18/20 10:24

Analyte	Spike Amount	LCS Result	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)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	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

Wet Chemistry by Method 300.0

[L1199114-26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44](#)

Method Blank (MB)

(MB) R3509647-1 03/17/20 23:34

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	2.44	↓	0.795	10.0

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

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)	DUP Result (dry)	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	DUP Result	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	LCS Result	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)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	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

Wet Chemistry by Method 300.0

[L1199114-45,46,47,48,49,50,51,52,53,54,55,56,57](#)

Method Blank (MB)

(MB) R3509727-1 03/17/20 21:56

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	2.37	↓	0.795	10.0

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

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)	DUP Result (dry)	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)	DUP Result (dry)	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	LCS Result	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)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	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

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

[L1199114-01,03,05,06,08,09,11,13,14,15,17,18,19,20](#)

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	↓	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	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

[L1199114-21,22,23,24,26,27,28,30,32,33,34,35,36,37,38](#)

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	↓	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	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

[L1199114-42,43,44,45,46,47,48,49,57](#)

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	↓	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	104			77.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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	

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

[L1199114-50,51,52,54,55,56](#)

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
<sup>(S)</sup> 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
<sup>(S)</sup> a,a,a-Trifluorotoluene(FID)				105	104	77.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

[L1199114-02,04,07,10,12,16](#)

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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	

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

[L1199114-25,29,31,39,40](#)

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	↓	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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	

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

[L1199114-53](#)

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	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

[L1199114-41](#)

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	↓	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	99.4			77.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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	

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

[L1199114-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20](#)

Method Blank (MB)

(MB) R3509307-3 03/16/20 23:31

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	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	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
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)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
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				

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

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

[L1199114-21,22,23,24,25,26,27,28,29,30,31,32,33](#)

Method Blank (MB)

(MB) R3509519-2 03/17/20 11:20

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	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	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
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	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
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				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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

[L1199114-34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53](#)

Method Blank (MB)

(MB) R3510640-3 03/18/20 07:56

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	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	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
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)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
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				

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

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

[L1199114-54,55,56,57](#)

Method Blank (MB)

(MB) R3511093-2 03/17/20 17:11

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	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	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
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)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
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				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

[L1199114-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16](#)

Method Blank (MB)

(MB) R3509778-1 03/17/20 20:10

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3509778-2 03/17/20 20:23

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
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)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
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				

Semi-Volatile Organic Compounds (GC) by Method 8015

[L1199114-17,18,19,20,21,22,23,24,25,26,27,28,29](#)

Method Blank (MB)

(MB) R3510563-1 03/19/20 21:00

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	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	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
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)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
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				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

[L1199114-50,51,52,53,54,55,56,57](#)

Method Blank (MB)

(MB) R3510569-1 03/19/20 22:30

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	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	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
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	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

[L1199114-30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49](#)

Method Blank (MB)

(MB) R3510943-3 03/21/20 12:37

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	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	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
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)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
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		

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## 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.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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 <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	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	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	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

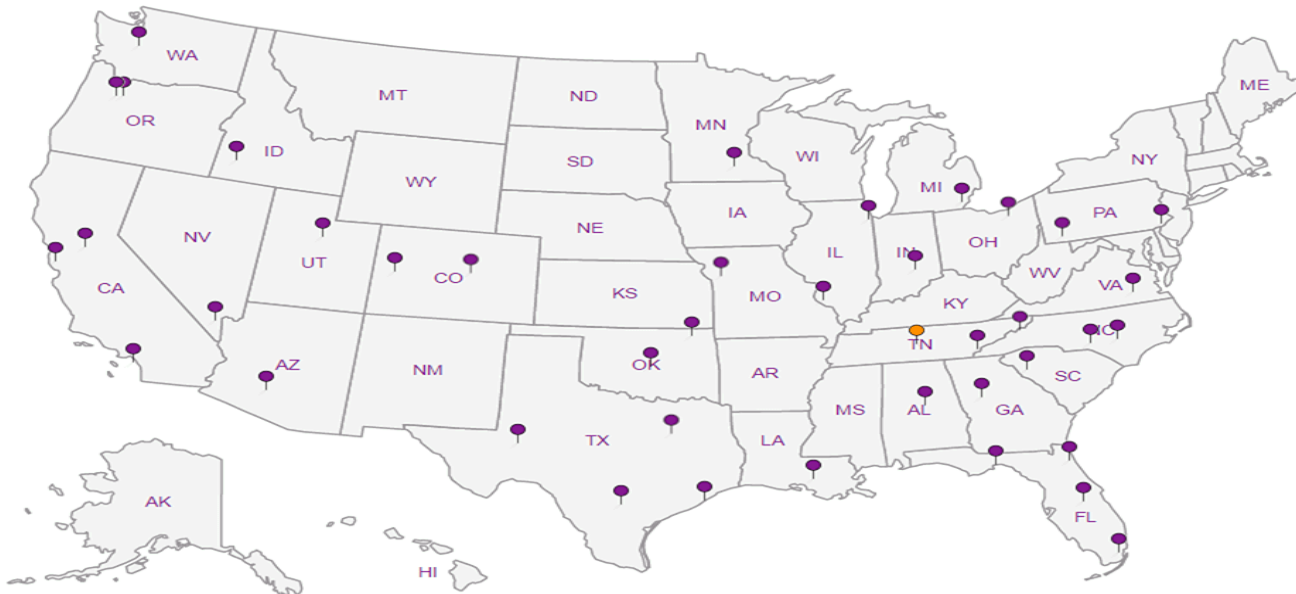
### Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.







# 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 Lull  
**Project Name:** COP MCA 2 C Header Release      **Contact Info:** Email: christian.lull@tetratech.com  
 Phone: (512) 338-1667  
**Project Location:** 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		MATRIX		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				
		YEAR: 2020		WATER	SOIL	HCL	HNO <sub>3</sub>	ICE	NONE																											
		DATE	TIME																																	
01	AH-4E (0-1')	3/3/2020	1100		X			X		1	N	X	X																							
02	AH-4E (3-4')	3/3/2020	1110		X			X		1	N	X	X																							
03	AH-4W (0-1')	3/3/2020	1120		X			X		1	N	X	X																							
04	AH-4W (3-4')	3/3/2020	1130		X			X		1	N	X	X																							
05	T-5 (1-2')	3/5/2020	1150		X			X		1	N	X	X																							
06	T-5 (3-4')	3/5/2020	1200		X			X		1	N	X	X																							
07	T-5 (5-6')	3/5/2020	1210		X			X		1	N	X	X																							
08	T-5 (7-8')	3/5/2020	1220		X			X		1	N	X	X																							
09	AH-5S (0-1')	3/5/2020	1300		X			X		1	N	X	X																							
10	AH-5S (3-4')	3/5/2020	1310		X			X		1	N	X	X																							

Relinquished by: *Adrian Dapo* 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: *SOA* Date: 3/12/20 Time: 17:00  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_      Received by: *W Taylor* Date: 3/19/20 Time: 8:00

**LAB USE ONLY**

REMARKS:  
 Standard  
 RUSH: Same Day 24 hr. 48 hr. 72 hr.  
 Rush Charges Authorized  
 Special Report Limits or TRRP Report

Sample Temperature: \_\_\_\_\_

(Circle) HAND DELIVERED FEDEX UPS Tracking #: \_\_\_\_\_

RAD SCREEN: <0.5 mR/hr  
 Released to Imaging: 7/28/2021 1:49:41 PM

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

<b>Client Name:</b> Conoco Phillips	<b>Site Manager:</b> Christian Llull
<b>Project Name:</b> COP MCA 2 C Header Release	<b>Contact Info:</b> Email: christian.llull@tetratech.com Phone: (512) 338-1667
<b>Project Location:</b> (county, state) Lea County, New Mexico	<b>Project #:</b> 212C-MD-02119
<b>Invoice to:</b> Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701	
<b>Receiving Laboratory:</b> Pace Analytical	<b>Sampler Signature:</b> Adrian

**Comments:** COPTETRA Acctnum

**ANALYSIS REQUEST**  
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST															HOLD									
		YEAR: 2020		WATER	SOIL	HCL	HNO <sub>3</sub>	ICE	NONE			BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C95)	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					
		DATE	TIME																																	
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: <i>[Signature]</i>	Date: 3/12/20	Time: 14:15	Received by: <i>[Signature]</i>	Date: 3/12/20	Time: 14:15
Relinquished by: <i>[Signature]</i>	Date: 3/12/20	Time: 17:00	Received by: <i>[Signature]</i>	Date: 3/12/20	Time: 17:00
Relinquished by:	Date:	Time:	Received by: <i>[Signature]</i>	Date: 3/13/20	Time: 8:00

**LAB USE ONLY**

Sample Temperature \_\_\_\_\_

**REMARKS:**

Standard

RUSH: Same Day 24 hr. 48 hr. 72 hr.

Rush Charges Authorized

Special Report Limits or TRRP Report

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(Circle) HAND DELIVERED FEDEX UPS Tracking #: \_\_\_\_\_

*Containers Received 6.6*



# Tetra Tech, Inc.

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

119 9114

**Client Name:** Conoco Phillips  
**Site Manager:** Christian Llull  
**Project Name:** COP MCA 2 C Header Release  
**Contact Info:** Email: christian.llull@tetrattech.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.)

BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO + DRO - ORO - MFO)	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	FCI	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	
X		X													X						
		X	X												X						
		X	X												X						
		X	X												X						
		X	X												X						
		X	X												X						X
		X	X												X						X
		X	X												X						X
		X	X												X						X
		X	X												X						X
		X	X												X						X

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)
		YEAR: 2020		WATER	SOIL	HCL	HNO <sub>3</sub>	ICE	NONE		
		DATE	TIME								
19	AH-6W (0-1')	3/5/2020	1100	X				X		1	N
20	AH-6W (3-4')	3/5/2020	1110	X				X		1	N
21	AH-7W (0-1')	3/5/2020	1120	X				X		1	N
22	AH-7W (3-4')	3/5/2020	1130	X				X		1	N
23	T-7(1-2')	3/5/2020	1150	X				X		1	N
	T-7 (3-4')	3/5/2020	1200	X				X		1	N
	T-7 (5-6')	3/5/2020	1210	X				X		1	N
	T-7(9-10')	3/5/2020	1220	X				X		1	N
24	T-7 (17.5')	3/5/2020	1300	X				X		1	N
25	AH-7E (0-1')	3/5/2020	1310	X				X		1	N

Relinquished by: <i>Adrian Llull</i> Date: 3/12/20 Time: 14:15	Received by: <i>Adrian Llull</i> Date: 3/12/20 Time: 14:15
Relinquished by: <i>Adrian Llull</i> Date: 3/12/20 Time: 17:00	Received by: <i>SWA</i> Date: 3/12/20 Time: 17:00
Relinquished by: <i>Adrian Llull</i> Date: 3/12/20 Time: 17:00	Received by: <i>N Taylor</i> Date: 3/13/20 Time: 8:00

**LAB USE ONLY**

Sample Temperature

**REMARKS:**

Standard

RUSH: Same Day 24 hr. 48 hr. 72 hr.

Rush Charges Authorized

Special Report Limits or TRRP Report

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Containers Received 66







COP TETRA



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:** 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		MATRIX		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	PCBs 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	DATE	TIME	WATER	SOIL	HCL	HNO3	ICE																							NONE				
		53	AH-11W (3-4')	3/10/2020	1100		X																									X				X
54	AH-11E (0-1')	3/10/2020	1110		X			X				X	X																							
55	AH-11E (3-4')	3/10/2020	1120		X			X				X	X																							
56	T-11 (1-2')	3/10/2020	1130		X			X				X	X																							
	T-11 (5-6')	3/10/2020	1150		X			X				X	X																							X
	T-11 (9-10')	3/10/2020	1200		X			X				X	X																							X
57	T-11 (14-15')	3/10/2020	1210		X			X				X	X																							

Relinquished by: <i>Adrian Soro</i>	Date: <i>3/12/20</i>	Time: <i>14:15</i>	Received by: <i>[Signature]</i>	Date: <i>3/12/20</i>	Time: <i>14:15</i>
Relinquished by: <i>[Signature]</i>	Date: <i>3/12/20</i>	Time: <i>7:00</i>	Received by: <i>SQA</i>	Date: <i>3/12/20</i>	Time: <i>17:00</i>
Relinquished by:	Date:	Time:	Received by: <i>W Taylor</i>	Date: <i>3/13/20</i>	Time: <i>8:00</i>

**LAB USE ONLY**

Sample Temperature

**REMARKS:**

Standard

RUSH: Same Day 24 hr. 48 hr. 72 hr.

Rush Charges Authorized

Special Report Limits or TRRP Report

ORIGINAL COPY  
 Containers Received 60

(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:	<i>Willie Taylor</i>		
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?			

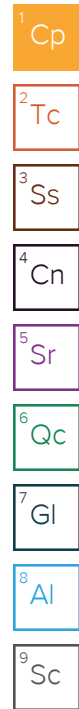




# ANALYTICAL REPORT

July 28, 2020

Revised Report



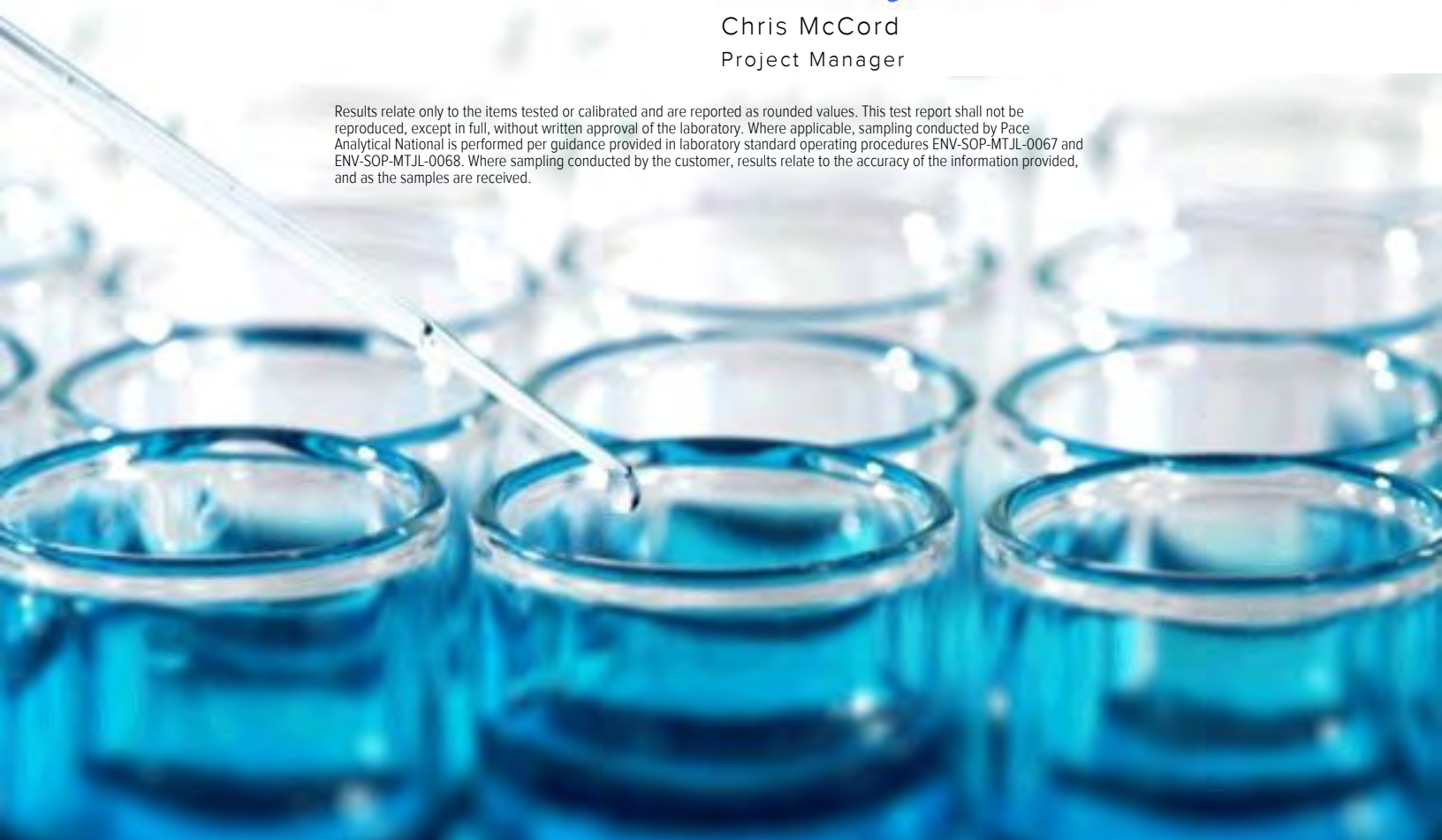
## ConocoPhillips - Tetra Tech

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 Lull  
 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.



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**Cn: Case Narrative** 6

**Sr: Sample Results** 7

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AH-11W-2 0-1FT L1238345-09 15

AH-11W-2 2-3FT L1238345-10 16

AH-9W-2 0-1FT L1238345-11 17

AH-9N 0-1FT L1238345-13 18

AH-9N 2-3FT L1238345-14 19

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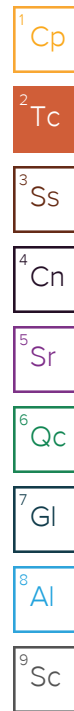
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Semi-Volatile Organic Compounds (GC) by Method 8015 29

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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

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

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

1 Cp  
 2 Tc  
 3 Ss  
 4 Cn

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

5 Sr  
 6 Qc  
 7 Gl  
 8 Al

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

9 Sc

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

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

### Report Revision History

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Level II Report - Version 1: 07/20/20 17:24

Collected date/time: 07/08/20 12:00

L1238345

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	93.4		1	07/14/2020 23:35	<a href="#">WG1508708</a>

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	U		9.85	21.4	1	07/13/2020 23:32	<a href="#">WG1507969</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0232	0.107	1	07/12/2020 00:21	<a href="#">WG1507601</a>
(S) a,a,a-Trifluorotoluene(FID)	89.2			77.0-120		07/12/2020 00:21	<a href="#">WG1507601</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000500	0.00107	1	07/12/2020 13:59	<a href="#">WG1507711</a>
Toluene	U		0.00139	0.00535	1	07/12/2020 13:59	<a href="#">WG1507711</a>
Ethylbenzene	U		0.000789	0.00268	1	07/12/2020 13:59	<a href="#">WG1507711</a>
Total Xylenes	U		0.000942	0.00696	1	07/12/2020 13:59	<a href="#">WG1507711</a>
(S) Toluene-d8	104			75.0-131		07/12/2020 13:59	<a href="#">WG1507711</a>
(S) 4-Bromofluorobenzene	101			67.0-138		07/12/2020 13:59	<a href="#">WG1507711</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		07/12/2020 13:59	<a href="#">WG1507711</a>

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	3.23	J	1.72	4.28	1	07/16/2020 13:15	<a href="#">WG1507584</a>
C28-C40 Oil Range	14.3		0.293	4.28	1	07/16/2020 13:15	<a href="#">WG1507584</a>
(S) o-Terphenyl	52.4			18.0-148		07/16/2020 13:15	<a href="#">WG1507584</a>

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

Collected date/time: 07/08/20 12:30

L1238345

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	96.4		1	07/14/2020 23:35	<a href="#">WG1508708</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	U		9.54	20.7	1	07/13/2020 23:50	<a href="#">WG1507969</a>

- 5 Sr
- 6 Qc
- 7 Gl

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0225	0.104	1	07/12/2020 00:41	<a href="#">WG1507601</a>
(S) a,a,a-Trifluorotoluene(FID)	88.7			77.0-120		07/12/2020 00:41	<a href="#">WG1507601</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000484	0.00104	1	07/12/2020 14:19	<a href="#">WG1507711</a>
Toluene	U		0.00135	0.00519	1	07/12/2020 14:19	<a href="#">WG1507711</a>
Ethylbenzene	U		0.000764	0.00259	1	07/12/2020 14:19	<a href="#">WG1507711</a>
Total Xylenes	U		0.000913	0.00674	1	07/12/2020 14:19	<a href="#">WG1507711</a>
(S) Toluene-d8	104			75.0-131		07/12/2020 14:19	<a href="#">WG1507711</a>
(S) 4-Bromofluorobenzene	103			67.0-138		07/12/2020 14:19	<a href="#">WG1507711</a>
(S) 1,2-Dichloroethane-d4	111			70.0-130		07/12/2020 14:19	<a href="#">WG1507711</a>

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	2.53	J	1.67	4.15	1	07/16/2020 12:33	<a href="#">WG1507584</a>
C28-C40 Oil Range	11.7		0.284	4.15	1	07/16/2020 12:33	<a href="#">WG1507584</a>
(S) o-Terphenyl	52.0			18.0-148		07/16/2020 12:33	<a href="#">WG1507584</a>



Collected date/time: 07/08/20 13:30

L1238345

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	82.9		1	07/14/2020 23:35	<a href="#">WG1508708</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	11.8	J	11.1	24.1	1	07/14/2020 00:09	<a href="#">WG1507969</a>

- 5 Sr
- 6 Qc
- 7 Gl

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	0.0282	J	0.0262	0.121	1	07/12/2020 01:02	<a href="#">WG1507601</a>
(S) a,a,a-Trifluorotoluene(FID)	87.5			77.0-120		07/12/2020 01:02	<a href="#">WG1507601</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000661	0.00141	1	07/12/2020 14:39	<a href="#">WG1507711</a>
Toluene	U		0.00184	0.00707	1	07/12/2020 14:39	<a href="#">WG1507711</a>
Ethylbenzene	U		0.00104	0.00354	1	07/12/2020 14:39	<a href="#">WG1507711</a>
Total Xylenes	U		0.00125	0.00920	1	07/12/2020 14:39	<a href="#">WG1507711</a>
(S) Toluene-d8	104			75.0-131		07/12/2020 14:39	<a href="#">WG1507711</a>
(S) 4-Bromofluorobenzene	100			67.0-138		07/12/2020 14:39	<a href="#">WG1507711</a>
(S) 1,2-Dichloroethane-d4	110			70.0-130		07/12/2020 14:39	<a href="#">WG1507711</a>

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	U		1.94	4.83	1	07/16/2020 11:19	<a href="#">WG1507584</a>
C28-C40 Oil Range	4.44	B J	0.331	4.83	1	07/16/2020 11:19	<a href="#">WG1507584</a>
(S) o-Terphenyl	46.9			18.0-148		07/16/2020 11:19	<a href="#">WG1507584</a>

Collected date/time: 07/08/20 14:00

L1238345

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	93.6		1	07/14/2020 23:35	<a href="#">WG1508708</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	U		9.83	21.4	1	07/14/2020 00:27	<a href="#">WG1507969</a>

- 5 Sr
- 6 Qc
- 7 Gl

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0232	0.107	1	07/12/2020 01:22	<a href="#">WG1507601</a>
(S) a,a,a-Trifluorotoluene(FID)	89.1			77.0-120		07/12/2020 01:22	<a href="#">WG1507601</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000499	0.00107	1	07/12/2020 14:59	<a href="#">WG1507711</a>
Toluene	U		0.00139	0.00534	1	07/12/2020 14:59	<a href="#">WG1507711</a>
Ethylbenzene	U		0.000788	0.00267	1	07/12/2020 14:59	<a href="#">WG1507711</a>
Total Xylenes	U		0.000940	0.00695	1	07/12/2020 14:59	<a href="#">WG1507711</a>
(S) Toluene-d8	107			75.0-131		07/12/2020 14:59	<a href="#">WG1507711</a>
(S) 4-Bromofluorobenzene	103			67.0-138		07/12/2020 14:59	<a href="#">WG1507711</a>
(S) 1,2-Dichloroethane-d4	98.8			70.0-130		07/12/2020 14:59	<a href="#">WG1507711</a>

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	4.78		1.72	4.27	1	07/17/2020 16:09	<a href="#">WG1507584</a>
C28-C40 Oil Range	13.8		0.293	4.27	1	07/17/2020 16:09	<a href="#">WG1507584</a>
(S) o-Terphenyl	48.5			18.0-148		07/17/2020 16:09	<a href="#">WG1507584</a>

Collected date/time: 07/08/20 14:30

L1238345

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	99.6		1	07/14/2020 23:35	<a href="#">WG1508708</a>

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	U		9.23	20.1	1	07/14/2020 01:04	<a href="#">WG1507969</a>

3 Ss

4 Cn

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	0.0251	J	0.0218	0.100	1	07/12/2020 01:43	<a href="#">WG1507601</a>
(S) a,a,a-Trifluorotoluene(FID)	89.2			77.0-120		07/12/2020 01:43	<a href="#">WG1507601</a>

5 Sr

6 Qc

7 Gl

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000469	0.00100	1	07/12/2020 15:19	<a href="#">WG1507711</a>
Toluene	U		0.00130	0.00502	1	07/12/2020 15:19	<a href="#">WG1507711</a>
Ethylbenzene	U		0.000740	0.00251	1	07/12/2020 15:19	<a href="#">WG1507711</a>
Total Xylenes	U		0.000883	0.00652	1	07/12/2020 15:19	<a href="#">WG1507711</a>
(S) Toluene-d8	105			75.0-131		07/12/2020 15:19	<a href="#">WG1507711</a>
(S) 4-Bromofluorobenzene	98.1			67.0-138		07/12/2020 15:19	<a href="#">WG1507711</a>
(S) 1,2-Dichloroethane-d4	97.3			70.0-130		07/12/2020 15:19	<a href="#">WG1507711</a>

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	3.57	J	1.62	4.01	1	07/16/2020 13:28	<a href="#">WG1507584</a>
C28-C40 Oil Range	23.9		0.275	4.01	1	07/16/2020 13:28	<a href="#">WG1507584</a>
(S) o-Terphenyl	61.0			18.0-148		07/16/2020 13:28	<a href="#">WG1507584</a>

Collected date/time: 07/08/20 15:00

L1238345

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	85.8		1	07/14/2020 23:35	<a href="#">WG1508708</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	U		10.7	23.3	1	07/14/2020 01:22	<a href="#">WG1507969</a>

- 5 Sr
- 6 Qc
- 7 Gl

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	0.0304	J	0.0253	0.117	1	07/12/2020 02:03	<a href="#">WG1507601</a>
(S) a,a,a-Trifluorotoluene(FID)	86.2			77.0-120		07/12/2020 02:03	<a href="#">WG1507601</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000623	0.00133	1	07/12/2020 15:39	<a href="#">WG1507711</a>
Toluene	U		0.00173	0.00667	1	07/12/2020 15:39	<a href="#">WG1507711</a>
Ethylbenzene	U		0.000982	0.00333	1	07/12/2020 15:39	<a href="#">WG1507711</a>
Total Xylenes	U		0.00117	0.00866	1	07/12/2020 15:39	<a href="#">WG1507711</a>
(S) Toluene-d8	105			75.0-131		07/12/2020 15:39	<a href="#">WG1507711</a>
(S) 4-Bromofluorobenzene	100			67.0-138		07/12/2020 15:39	<a href="#">WG1507711</a>
(S) 1,2-Dichloroethane-d4	110			70.0-130		07/12/2020 15:39	<a href="#">WG1507711</a>

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	2.80	J	1.88	4.66	1	07/16/2020 14:01	<a href="#">WG1507584</a>
C28-C40 Oil Range	14.7		0.320	4.66	1	07/16/2020 14:01	<a href="#">WG1507584</a>
(S) o-Terphenyl	54.5			18.0-148		07/16/2020 14:01	<a href="#">WG1507584</a>

Collected date/time: 07/08/20 15:30

L1238345

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	81.3		1	07/14/2020 23:35	<a href="#">WG1508708</a>

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	U		11.3	24.6	1	07/14/2020 02:54	<a href="#">WG1507969</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0267	0.123	1	07/12/2020 03:45	<a href="#">WG1507614</a>
(S) a,a,a-Trifluorotoluene(FID)	97.9			77.0-120		07/12/2020 03:45	<a href="#">WG1507614</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000682	0.00146	1	07/12/2020 15:59	<a href="#">WG1507711</a>
Toluene	U		0.00190	0.00730	1	07/12/2020 15:59	<a href="#">WG1507711</a>
Ethylbenzene	U		0.00108	0.00365	1	07/12/2020 15:59	<a href="#">WG1507711</a>
Total Xylenes	U		0.00129	0.00949	1	07/12/2020 15:59	<a href="#">WG1507711</a>
(S) Toluene-d8	103			75.0-131		07/12/2020 15:59	<a href="#">WG1507711</a>
(S) 4-Bromofluorobenzene	102			67.0-138		07/12/2020 15:59	<a href="#">WG1507711</a>
(S) 1,2-Dichloroethane-d4	110			70.0-130		07/12/2020 15:59	<a href="#">WG1507711</a>

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	9.48		1.98	4.92	1	07/17/2020 00:20	<a href="#">WG1507584</a>
C28-C40 Oil Range	49.5		0.337	4.92	1	07/17/2020 00:20	<a href="#">WG1507584</a>
(S) o-Terphenyl	55.2			18.0-148		07/17/2020 00:20	<a href="#">WG1507584</a>

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

Collected date/time: 07/08/20 16:00

L1238345

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	99.2		1	07/14/2020 23:35	<a href="#">WG1508708</a>

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	U		9.27	20.2	1	07/14/2020 03:13	<a href="#">WG1507969</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	07/12/2020 04:07	<a href="#">WG1507614</a>
(S) a,a,a-Trifluorotoluene(FID)	97.8			77.0-120		07/12/2020 04:07	<a href="#">WG1507614</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000471	0.00101	1	07/12/2020 16:18	<a href="#">WG1507711</a>
Toluene	U		0.00131	0.00504	1	07/12/2020 16:18	<a href="#">WG1507711</a>
Ethylbenzene	U		0.000743	0.00252	1	07/12/2020 16:18	<a href="#">WG1507711</a>
Total Xylenes	U		0.000887	0.00655	1	07/12/2020 16:18	<a href="#">WG1507711</a>
(S) Toluene-d8	105			75.0-131		07/12/2020 16:18	<a href="#">WG1507711</a>
(S) 4-Bromofluorobenzene	98.6			67.0-138		07/12/2020 16:18	<a href="#">WG1507711</a>
(S) 1,2-Dichloroethane-d4	103			70.0-130		07/12/2020 16:18	<a href="#">WG1507711</a>

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	1.86	J	1.62	4.03	1	07/16/2020 12:19	<a href="#">WG1507584</a>
C28-C40 Oil Range	9.44		0.276	4.03	1	07/16/2020 12:19	<a href="#">WG1507584</a>
(S) o-Terphenyl	46.7			18.0-148		07/16/2020 12:19	<a href="#">WG1507584</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 07/08/20 16:30

L1238345

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	99.7		1	07/14/2020 23:22	<a href="#">WG1508709</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	U		9.23	20.1	1	07/14/2020 03:31	<a href="#">WG1507969</a>

- 5 Sr
- 6 Qc
- 7 Gl

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0218	0.100	1	07/12/2020 04:29	<a href="#">WG1507614</a>
(S) a,a,a-Trifluorotoluene(FID)	99.0			77.0-120		07/12/2020 04:29	<a href="#">WG1507614</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000468	0.00100	1	07/12/2020 16:38	<a href="#">WG1507711</a>
Toluene	U		0.00130	0.00501	1	07/12/2020 16:38	<a href="#">WG1507711</a>
Ethylbenzene	U		0.000739	0.00251	1	07/12/2020 16:38	<a href="#">WG1507711</a>
Total Xylenes	U		0.000883	0.00652	1	07/12/2020 16:38	<a href="#">WG1507711</a>
(S) Toluene-d8	105			75.0-131		07/12/2020 16:38	<a href="#">WG1507711</a>
(S) 4-Bromofluorobenzene	101			67.0-138		07/12/2020 16:38	<a href="#">WG1507711</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		07/12/2020 16:38	<a href="#">WG1507711</a>

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	6.11		1.61	4.01	1	07/16/2020 23:39	<a href="#">WG1507584</a>
C28-C40 Oil Range	33.6		0.275	4.01	1	07/16/2020 23:39	<a href="#">WG1507584</a>
(S) o-Terphenyl	66.8			18.0-148		07/16/2020 23:39	<a href="#">WG1507584</a>

Collected date/time: 07/08/20 17:00

L1238345

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.5		1	07/14/2020 23:22	<a href="#">WG1508709</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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		10.5	22.8	1	07/14/2020 03:50	<a href="#">WG1507969</a>

- 5 Sr
- 6 Qc
- 7 Gl

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		0.0248	0.114	1	07/12/2020 04:52	<a href="#">WG1507614</a>
(S) a,a,a-Trifluorotoluene(FID)	98.4			77.0-120		07/12/2020 04:52	<a href="#">WG1507614</a>

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		0.000601	0.00129	1	07/12/2020 16:58	<a href="#">WG1507711</a>
Toluene	U		0.00167	0.00643	1	07/12/2020 16:58	<a href="#">WG1507711</a>
Ethylbenzene	U		0.000948	0.00322	1	07/12/2020 16:58	<a href="#">WG1507711</a>
Total Xylenes	U		0.00113	0.00836	1	07/12/2020 16:58	<a href="#">WG1507711</a>
(S) Toluene-d8	106			75.0-131		07/12/2020 16:58	<a href="#">WG1507711</a>
(S) 4-Bromofluorobenzene	101			67.0-138		07/12/2020 16:58	<a href="#">WG1507711</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/12/2020 16:58	<a href="#">WG1507711</a>

- 8 Al
- 9 Sc

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	5.65		1.84	4.57	1	07/16/2020 23:53	<a href="#">WG1507584</a>
C28-C40 Oil Range	23.5		0.313	4.57	1	07/16/2020 23:53	<a href="#">WG1507584</a>
(S) o-Terphenyl	47.7			18.0-148		07/16/2020 23:53	<a href="#">WG1507584</a>



Collected date/time: 07/08/20 17:30

L1238345

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	99.6		1	07/14/2020 23:22	<a href="#">WG1508709</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	49.4		9.23	20.1	1	07/14/2020 04:08	<a href="#">WG1507969</a>

- 5 Sr
- 6 Qc
- 7 Gl

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0218	0.100	1	07/12/2020 05:14	<a href="#">WG1507614</a>
(S) a,a,a-Trifluorotoluene(FID)	99.0			77.0-120		07/12/2020 05:14	<a href="#">WG1507614</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000469	0.00100	1	07/12/2020 17:18	<a href="#">WG1507711</a>
Toluene	U		0.00130	0.00502	1	07/12/2020 17:18	<a href="#">WG1507711</a>
Ethylbenzene	U		0.000740	0.00251	1	07/12/2020 17:18	<a href="#">WG1507711</a>
Total Xylenes	U		0.000883	0.00652	1	07/12/2020 17:18	<a href="#">WG1507711</a>
(S) Toluene-d8	106			75.0-131		07/12/2020 17:18	<a href="#">WG1507711</a>
(S) 4-Bromofluorobenzene	101			67.0-138		07/12/2020 17:18	<a href="#">WG1507711</a>
(S) 1,2-Dichloroethane-d4	97.7			70.0-130		07/12/2020 17:18	<a href="#">WG1507711</a>

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	21.6		1.62	4.01	1	07/17/2020 00:06	<a href="#">WG1507584</a>
C28-C40 Oil Range	97.3		0.275	4.01	1	07/17/2020 00:06	<a href="#">WG1507584</a>
(S) o-Terphenyl	59.0			18.0-148		07/17/2020 00:06	<a href="#">WG1507584</a>

Collected date/time: 07/08/20 18:30

L1238345

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	92.9		1	07/14/2020 23:22	<a href="#">WG1508709</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	U		9.90	21.5	1	07/14/2020 04:27	<a href="#">WG1507969</a>

- 5 Sr
- 6 Qc
- 7 Gl

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0234	0.108	1	07/12/2020 05:36	<a href="#">WG1507614</a>
(S) a,a,a-Trifluorotoluene(FID)	98.6			77.0-120		07/12/2020 05:36	<a href="#">WG1507614</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000503	0.00108	1	07/12/2020 17:38	<a href="#">WG1507711</a>
Toluene	U		0.00140	0.00538	1	07/12/2020 17:38	<a href="#">WG1507711</a>
Ethylbenzene	U		0.000793	0.00269	1	07/12/2020 17:38	<a href="#">WG1507711</a>
Total Xylenes	U		0.000947	0.00700	1	07/12/2020 17:38	<a href="#">WG1507711</a>
(S) Toluene-d8	106			75.0-131		07/12/2020 17:38	<a href="#">WG1507711</a>
(S) 4-Bromofluorobenzene	99.1			67.0-138		07/12/2020 17:38	<a href="#">WG1507711</a>
(S) 1,2-Dichloroethane-d4	103			70.0-130		07/12/2020 17:38	<a href="#">WG1507711</a>

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	10.1		1.73	4.31	1	07/16/2020 22:31	<a href="#">WG1507584</a>
C28-C40 Oil Range	36.3		0.295	4.31	1	07/16/2020 22:31	<a href="#">WG1507584</a>
(S) o-Terphenyl	61.7			18.0-148		07/16/2020 22:31	<a href="#">WG1507584</a>

Collected date/time: 07/08/20 19:00

L1238345

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	99.1		1	07/14/2020 23:22	<a href="#">WG1508709</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	13.1	J	9.29	20.2	1	07/14/2020 04:45	<a href="#">WG1507969</a>

- 5 Sr
- 6 Qc
- 7 Gl

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	07/12/2020 05:58	<a href="#">WG1507614</a>
(S) a,a,a-Trifluorotoluene(FID)	98.5			77.0-120		07/12/2020 05:58	<a href="#">WG1507614</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000471	0.00101	1	07/12/2020 17:58	<a href="#">WG1507711</a>
Toluene	U		0.00131	0.00505	1	07/12/2020 17:58	<a href="#">WG1507711</a>
Ethylbenzene	U		0.000744	0.00252	1	07/12/2020 17:58	<a href="#">WG1507711</a>
Total Xylenes	U		0.000888	0.00656	1	07/12/2020 17:58	<a href="#">WG1507711</a>
(S) Toluene-d8	107			75.0-131		07/12/2020 17:58	<a href="#">WG1507711</a>
(S) 4-Bromofluorobenzene	98.9			67.0-138		07/12/2020 17:58	<a href="#">WG1507711</a>
(S) 1,2-Dichloroethane-d4	97.5			70.0-130		07/12/2020 17:58	<a href="#">WG1507711</a>

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	4.35		1.63	4.04	1	07/16/2020 14:14	<a href="#">WG1507584</a>
C28-C40 Oil Range	28.2		0.277	4.04	1	07/16/2020 14:14	<a href="#">WG1507584</a>
(S) o-Terphenyl	51.8			18.0-148		07/16/2020 14:14	<a href="#">WG1507584</a>

Collected date/time: 07/08/20 19:30

L1238345

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.3		1	07/14/2020 23:22	<a href="#">WG1508709</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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	16.6	J	9.27	20.1	1	07/14/2020 05:03	<a href="#">WG1507969</a>

- 5 Sr
- 6 Qc
- 7 Gl

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 06:21	<a href="#">WG1507614</a>
(S) a,a,a-Trifluorotoluene(FID)	98.2			77.0-120		07/12/2020 06:21	<a href="#">WG1507614</a>

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		0.000470	0.00101	1	07/12/2020 18:18	<a href="#">WG1507711</a>
Toluene	U		0.00131	0.00504	1	07/12/2020 18:18	<a href="#">WG1507711</a>
Ethylbenzene	U		0.000742	0.00252	1	07/12/2020 18:18	<a href="#">WG1507711</a>
Total Xylenes	U		0.000886	0.00655	1	07/12/2020 18:18	<a href="#">WG1507711</a>
(S) Toluene-d8	104			75.0-131		07/12/2020 18:18	<a href="#">WG1507711</a>
(S) 4-Bromofluorobenzene	101			67.0-138		07/12/2020 18:18	<a href="#">WG1507711</a>
(S) 1,2-Dichloroethane-d4	108			70.0-130		07/12/2020 18:18	<a href="#">WG1507711</a>

- 8 Al
- 9 Sc

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	7.36		1.62	4.03	1	07/16/2020 22:45	<a href="#">WG1507584</a>
C28-C40 Oil Range	40.1		0.276	4.03	1	07/16/2020 22:45	<a href="#">WG1507584</a>
(S) o-Terphenyl	48.2			18.0-148		07/16/2020 22:45	<a href="#">WG1507584</a>

Collected date/time: 07/08/20 20:00

L1238345

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	97.7		1	07/14/2020 23:22	<a href="#">WG1508709</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	53.9		9.42	20.5	1	07/14/2020 05:22	<a href="#">WG1507969</a>

- 5 Sr
- 6 Qc
- 7 Gl

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0222	0.102	1	07/12/2020 06:43	<a href="#">WG1507614</a>
(S) a,a,a-Trifluorotoluene(FID)	99.2			77.0-120		07/12/2020 06:43	<a href="#">WG1507614</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	0.000717	J	0.000478	0.00102	1	07/14/2020 13:17	<a href="#">WG1507972</a>
Toluene	0.00141	J	0.00133	0.00512	1	07/14/2020 13:17	<a href="#">WG1507972</a>
Ethylbenzene	U		0.000755	0.00256	1	07/14/2020 13:17	<a href="#">WG1507972</a>
Total Xylenes	0.00102	J	0.000901	0.00665	1	07/14/2020 13:17	<a href="#">WG1507972</a>
(S) Toluene-d8	103			75.0-131		07/14/2020 13:17	<a href="#">WG1507972</a>
(S) 4-Bromofluorobenzene	94.9			67.0-138		07/14/2020 13:17	<a href="#">WG1507972</a>
(S) 1,2-Dichloroethane-d4	94.2			70.0-130		07/14/2020 13:17	<a href="#">WG1507972</a>

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	7.58		1.65	4.10	1	07/16/2020 22:58	<a href="#">WG1507584</a>
C28-C40 Oil Range	37.6		0.281	4.10	1	07/16/2020 22:58	<a href="#">WG1507584</a>
(S) o-Terphenyl	60.3			18.0-148		07/16/2020 22:58	<a href="#">WG1507584</a>

Total Solids by Method 2540 G-2011

[L1238345-01,02,03,04,05,06,07,08](#)

## Method Blank (MB)

(MB) R3549748-1 07/14/20 23:35

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## 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	

Total Solids by Method 2540 G-2011

[L1238345-09,10,11,13,14,15,16](#)

Method Blank (MB)

(MB) R3549745-1 07/14/20 23:22

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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	

Wet Chemistry by Method 300.0

[L1238345-01,02,03,04,05,06,07,08,09,10,11,13,14,15,16](#)

Method Blank (MB)

(MB) R3549168-1 07/13/20 22:36

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		9.20	20.0

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

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)	DUP Result (dry)	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)	DUP Result (dry)	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	LCS Result	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)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	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



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

[L1238345-01,02,03,04,05,06](#)

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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	

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

[L1238345-07,08,09,10,11,13,14,15,16](#)

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	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

L1238345-01,02,03,04,05,06,07,08,09,10,11,13,14,15

Method Blank (MB)

(MB) R3549987-2 07/12/20 12:46

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	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	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
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	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

L1238345-16

Method Blank (MB)

(MB) R3550795-2 07/14/20 10:15

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	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	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
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)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg				%	%		%			%	%
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				

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

Semi-Volatile Organic Compounds (GC) by Method 8015

[L1238345-01,02,03,04,05,06,07,08,09,10,11,13,14,15,16](#)

Method Blank (MB)

(MB) R3550539-1 07/16/20 10:51

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	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	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
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)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
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				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## 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.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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 <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	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	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	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

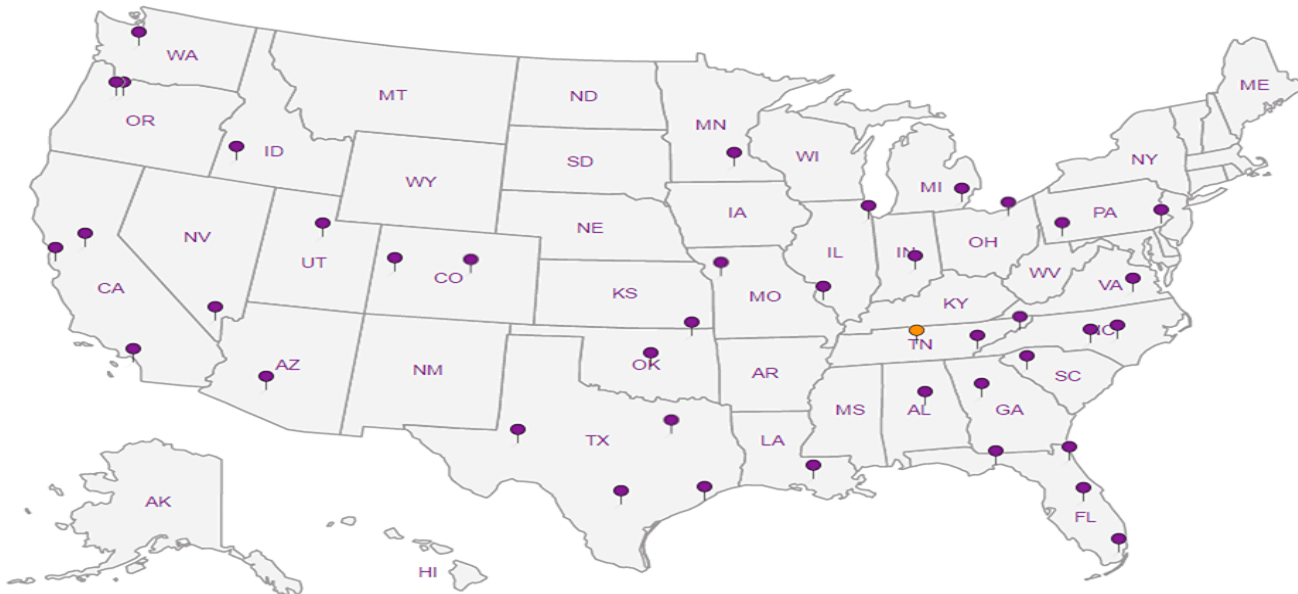
### Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.



1 Cp

2 Tc

3 Ss

4 Cn


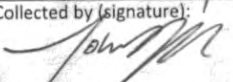
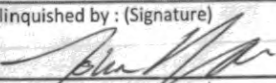
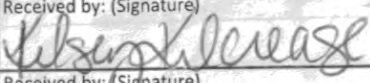
5 Sr

6 Qc

7 Gl

8 Al

9 Sc


<b>ConocoPhillips - Tetra Tech</b> 901 West Wall Suite 100 Midland TX 79701		Billing Information: Accounts Payable 901 West Wall Suite 100 Midland, TX 79701		Pres Chk		Analysis / Container / Preservative										Chain of Custody Page 1 of 2			
		Report to: Christian Llull		Email To: christian.llull@tetratech.com		12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859										 National Center for Testing & Innovation			
Project Description: COP MCA 2-C Header Release				City/State Collected: <b>Hobbs, NM</b>		Please Circle: PT MT <b>CT</b> ET		CHLORIDE-300 4ozClr-NoPres GRO,V8260BTEX 4ozClr-NoPres TPH-DRO/ORO 4ozClr-NoPres										12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859	
Phone: <b>512-338-1667</b>		Client Project # <b>212C-MD-02119</b>		Lab Project # <b>COPTETRA-212CMD02119</b>		Table # <b>41238345</b>													
Collected by (print): <b>JOHN MYLER</b>		Site/Facility ID # <b>LEA COUNTY, NEW MEXICO</b>		P.O. #		Acctnum: <b>COPTETRA</b>													
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 #		Template: <b>T170394</b>													
Immediately Packed on Ice N ___ Y <b>X</b>		Date Results Needed <b>Standard, No Rush</b>		No. of Cntrs		Prelogin: <b>P784175</b>													
Shipped Via: <b>FedEX Ground</b>		Remarks		Sample # (lab only)		PM: <b>526 - Chris McCord</b>													
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Sample Receipt Checklist											
AH-1S		Grab	SS	0'-1'	7/18/20	12:00	1	COC Seal Present/Intact: <input type="checkbox"/> NP <input type="checkbox"/> N											
AH-1S		↓	SS	2'-3'	↓	12:30	↓	COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N											
AH-5S		↓	SS	0'-1'	↓	13:30	↓	Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N											
AH-5S		↓	SS	2'-3'	↓	14:00	↓	Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N											
AH-7W		↓	SS	0'-1'	↓	14:30	↓	Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N											
AH-7W		↓	SS	2'-3'	↓	15:00	↓	If Applicable											
AH-7E		↓	SS	0'-1'	↓	15:30	↓	VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N											
AH-7E		↓	SS	2'-3'	↓	16:00	↓	Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N											
AH-11W		↓	SS	0'-1'	↓	16:30	↓	RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N											
AH-11W		↓	SS	2'-3'	↓	17:00	↓	If preservation required by Login: Date/Time											
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: <b>RED COOLER</b>		Samples returned via: ___ UPS ___ FedEx ___ Courier		Tracking # <b>451016595120</b>		pH ___ Temp ___ Flow ___ Other ___		Trip Blank Received: Yes/No HCL/MeOH TBR									
Relinquished by: (Signature) 		Date: <b>7/19/20</b>	Time: <b>10:30</b>	Received by: (Signature) 		Temp: <b>17°C</b>		Bottles Received: <b>16</b>		Hold:									
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature)		Date: <b>7-10-20</b>		Time: <b>0830</b>		Condition: NCF <input checked="" type="checkbox"/> 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

Chain of Custody Page 2 of 2  
  
 12065 Lebanon Rd  
 Mount Juliet, TN 37122  
 Phone: 615-758-5858  
 Phone: 800-767-5859  
 Fax: 615-758-5859

Report to:  
**Christian Llull**

Email To: christian.llull@tetrattech.com

Project Description:  
 COP MCA 2-C Header Release

City/State Collected: **Hobbs, NM**

Please Circle:  
 PT MT **CI** 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):  


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

Quote #

Immediately Packed on Ice N    Y X

Date Results Needed  
**Standard, No Rush**

No. of Cntrs

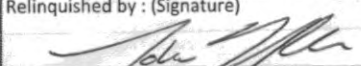
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE-300 4ozClr-NoPres	GRO,V8260BTEX 4ozClr-NoPres	TPH-DRO/ORO 4ozClr-NoPres												
AH-9W	Grab	SS	0'-1'	7/18/20	17:30	1	X	X	X												
AH-9W	↓	SS	2'-3'		18:00																
AH-9N	↓	SS	0'-1'		18:30																
AH-9N	↓	SS	2'-3'		19:00																
AH-8W	↓	SS	0'-1'		19:30																
AH-8W	↓	SS	2'-3'		20:00																
Trip-Blank-1	-	SS	-	-	-																
		SS																			
		SS																			
		SS																			

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

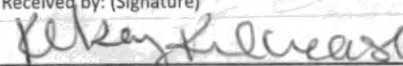
Remarks: **RED-COOLER**  
 pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_

Sample Receipt Checklist  
 COC Seal Present/Intact:    NP    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


Samples returned via:  
 \_\_\_ UPS \_\_\_ FedEx \_\_\_ Courier  
 Tracking #

Relinquished by: (Signature)  


Date: **7/19/20** Time: **10:30**

Received by: (Signature)  


Trip Blank Received: **Yes** No  
 HCL/MeOH  
 TBR

Relinquished by: (Signature)  


Date: Time:

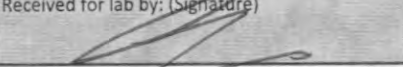
Received by: (Signature)

Temp: **27.7°C** Bottles Received: **16**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: Time:

Received for lab by: (Signature)  


Date: **7-18-20** Time: **0850**

Hold: Condition: **NCF 10**

**Troy Dunlap**



Login #: L1238345	Client: COPTETRA	Date: 7/10/20	Evaluated by: Troy Dunlap
-------------------	------------------	---------------	---------------------------

**Non-Conformance (check applicable items)**



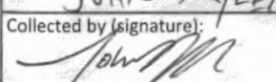
Sample Integrity	Chain of Custody Clarification	If Broken Container:
Parameter(s) past holding time	Log in Clarification Needed	Insufficient packing material around container
Temperature not in range	Chain of custody is incomplete	Insufficient packing material inside cooler
Improper container type	Please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

FOR INSTRUCTIONS

Client notified.

<b>ConocoPhillips - Tetra Tech</b>		Billing Information:		Analysis / Container / Preservative		Chain of Custody Page 1 of 2			
901 West Wall Suite 100 Midland TX 79701		Accounts Payable 901 West Wall Suite 100 Midland, TX 79701		Pres Chk		 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			
Report to: <b>Christian Llull</b>		Email To: christian.llull@tetrattech.com		12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859					
Project Description: COP MCA 2-C Header Release		City/State Collected: <b>Helms, NM</b>	Please Circle: PT MT <input checked="" type="radio"/> ET		D135 Table #: <b>41238345</b> Acctnum: <b>COPTETRA</b> Template: <b>T170394</b> Prelogin: <b>P784175</b> PM: <b>526 - Chris McCord</b> PB: <b>7/1/20 MO</b> Shipped Via: <b>FedEX Ground</b>				
Phone: <b>512-338-1667</b>	Client Project # <b>212C-MD-02119</b>	Lab Project # <b>COPTETRA-212CMD02119</b>		CHLORIDE-300 4ozClr-NoPres GRO,V8260BTEX 4ozClr-NoPres TPH-DRO/ORO 4ozClr-NoPres					
Collected by (print): <b>JOHN MYLER</b>	Site/Facility ID # <b>LEA COUNTY, NEW MEXICO</b>	P.O. #		Quote #					
Collected by (signature): 	Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day		Date Results Needed <b>Standard, No Rush</b>		No. of Cntrs				
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>									
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs		Remarks	Sample # (lab only)
AH-1S-2	Grab	SS	0'-1'	7/18/20	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

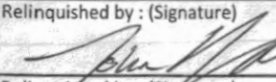
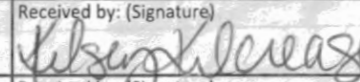
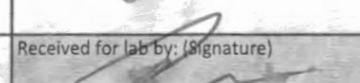
\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other



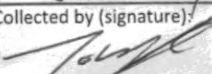
Remarks: **RED COOLER**

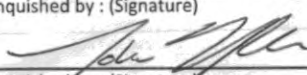
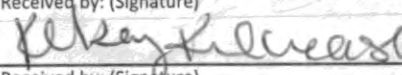

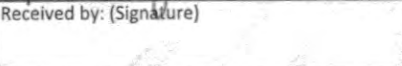
pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_

Sample Receipt Checklist  
 COC Seal Present/Intact:  Y  N  
 COC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 If Applicable  
 VOA Zero Headpace:  Y  N  
 Preservation Correct/Checked:  Y  N  
 RAD Screen <0.5 mR/hr:  Y  N

Samples returned via:  UPS  FedEx  Courier  
 Tracking # **4510 1659 5120**

Relinquished by: (Signature) 	Date: <b>7/19/20</b>	Time: <b>10:30</b>	Received by: (Signature) 	Trip Blank Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> HCL / MeOH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: <b>44.1°C</b> Bottles Received: <b>16</b>
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) 	Date: <b>7-10-20</b> Time: <b>0830</b> Hold: Condition: <b>NCF OK</b>

<b>ConocoPhillips - Tetra Tech</b> 901 West Wall Suite 100 Midland TX 79701 Report to: <b>Christian Llull</b>		Billing Information: Accounts Payable 901 West Wall Suite 100 Midland, TX 79701 Email To: christian.llull@tetrattech.com		Pres Chk		Analysis / Container / Preservative										Chain of Custody Page <b>2</b> of <b>2</b>  12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 	
Project Description: COP MCA 2-C Header Release		City/State Collected: <b>Hobbs, NM</b>		Please Circle: PT MT <b>ET</b>		Phone: <b>512-338-1667</b>		Client Project # <b>212C-MD-02119</b>		Lab Project # <b>COPTETRA-212CMD02119</b>		CHLORIDE-300 4ozClr-NoPres GRO,V8260BTEX 4ozClr-NoPres TPH-DRO/ORO 4ozClr-NoPres		SDG # <b>U238345</b>			
Collected by (print): <b>JOHN MYLER</b>		Site/Facility ID # <b>LEA COUNTY, NEW MEXICO</b>		P.O. #		Table #		Acctnum: <b>COPTETRA</b>		Template: <b>T170394</b>				Prelogin: <b>P784175</b>		PM: <b>526 - Chris McCord</b>	
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 <b>Standard, No Rush</b>		No. of Cntrs		Shipped Via: <b>FedEX Ground</b>				Remarks		Sample # (lab only)	
Immediately Packed on Ice N <b>Y X</b>		Date Results Needed		No. of Cntrs		No. of Cntrs		No. of Cntrs		No. of Cntrs				No. of Cntrs		No. of Cntrs	
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs											
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															

* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: <b>RED-COOLER</b>		pH _____ Temp _____ Flow _____ Other _____		Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> NP <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N IF Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N									
Samples returned via: ___ UPS ___ FedEx ___ Courier		Tracking #		Relinquished by: (Signature) 		Date: <b>7/19/20</b> Time: <b>10:30</b>		Received by: (Signature) 		Trip Blank Received: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No HCL/MeOH TBR		Temp: <b>4°C</b> Bottles Received: <b>16</b>		If preservation required by Login: Date/Time	
Relinquished by: (Signature) 		Date: _____ Time: _____		Received by: (Signature) 		Date: <b>7-18-20</b> Time: <b>0850</b>		Hold:		Condition: NCF <b>100</b>		Hold:		Condition:	

---

**Chris McCord**

---

**From:** Dickerson, Ryan <Ryan.Dickerson@tetratech.com>  
**Sent:** Tuesday, July 21, 2020 1:37 PM  
**To:** Chris McCord  
**Cc:** Lull, Christian  
**Subject:** L1238345 COC Revision  
**Attachments:** COC edits\_L1238345.pdf

**CAUTION:** This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

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](mailto: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](http://tetratech.com)

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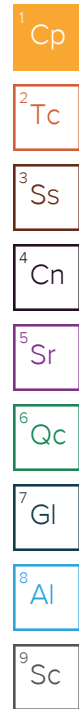
TETRA TECH



# ANALYTICAL REPORT

August 07, 2020

Revised Report



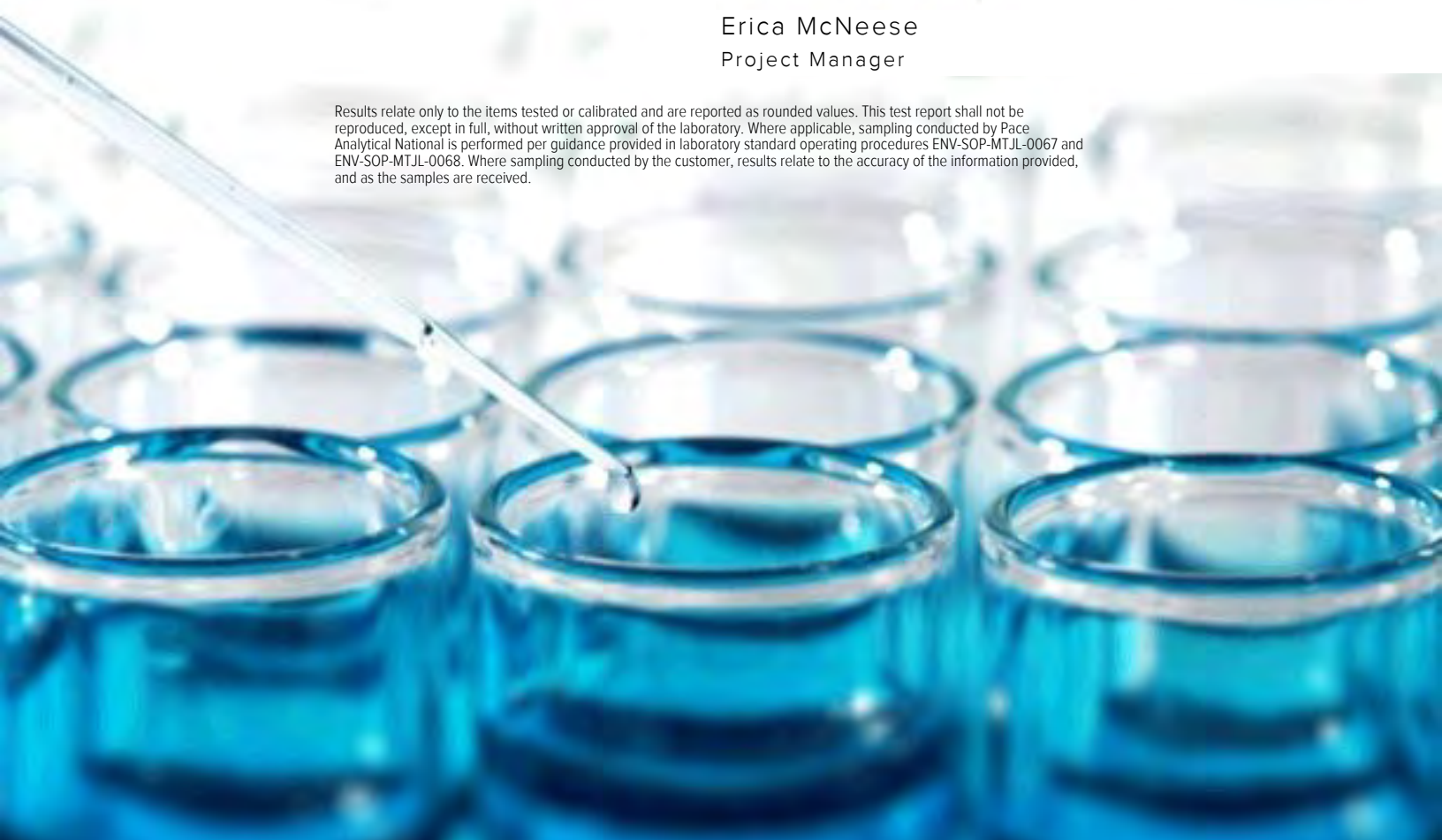
## ConocoPhillips - Tetra Tech

Sample Delivery Group: L1243725  
 Samples Received: 07/25/2020  
 Project Number: 212C-MD-02119  
 Description: COP MCA 2-C Header Release  
 Site: LEA COUNTY, NEW MEXICO  
 Report To: Christian Lull  
 901 West Wall  
 Suite 100  
 Midland, TX 79701

Entire Report Reviewed By:

Erica McNeese  
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.



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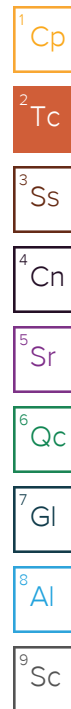
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AH-1E-2 (0-1') L1243725-01 Solid

Collected by Devin Dominguez  
 Collected date/time 07/23/20 00:00  
 Received date/time 07/25/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1518215	1	07/31/20 23:47	07/31/20 23:56	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1516371	1	07/30/20 11:47	07/31/20 00:05	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1517753	1	07/28/20 23:31	07/30/20 19:12	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1517242	1	07/28/20 23:31	07/30/20 01:13	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1517866	1	08/02/20 09:00	08/02/20 22:48	JN	Mt. Juliet, TN

1 Cp  
 2 Tc  
 3 Ss  
 4 Cn

AH-1E-2 (2-3') L1243725-02 Solid

Collected by Devin Dominguez  
 Collected date/time 07/23/20 00:00  
 Received date/time 07/25/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1518215	1	07/31/20 23:47	07/31/20 23:56	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1516371	1	07/30/20 11:47	07/31/20 00:15	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1517753	1	07/28/20 23:31	07/30/20 19:35	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1517242	1	07/28/20 23:31	07/30/20 01:33	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1517866	1	08/02/20 09:00	08/02/20 23:01	JN	Mt. Juliet, TN

5 Sr  
 6 Qc  
 7 Gl  
 8 Al

AH-1S-3 (0-1') L1243725-03 Solid

Collected by Devin Dominguez  
 Collected date/time 07/24/20 00:00  
 Received date/time 07/25/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1518216	1	07/31/20 23:35	07/31/20 23:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1516371	1	07/30/20 11:47	07/31/20 00:34	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1518312	1	07/28/20 23:31	07/31/20 19:02	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1517242	1	07/28/20 23:31	07/30/20 01:54	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1517866	1	08/02/20 09:00	08/02/20 23:14	JN	Mt. Juliet, TN

9 Sc

AH-1S-3 (2-3') L1243725-04 Solid

Collected by Devin Dominguez  
 Collected date/time 07/24/20 00:00  
 Received date/time 07/25/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1518216	1	07/31/20 23:35	07/31/20 23:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1516371	1	07/30/20 11:47	07/31/20 00:43	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1517753	1	07/28/20 23:31	07/30/20 20:31	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1517242	1	07/28/20 23:31	07/30/20 02:13	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1517866	1	08/02/20 09:00	08/02/20 23:27	JN	Mt. Juliet, TN

AH-1S-3 (4-5') L1243725-05 Solid

Collected by Devin Dominguez  
 Collected date/time 07/24/20 00:00  
 Received date/time 07/25/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1518216	1	07/31/20 23:35	07/31/20 23:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1516371	10	07/30/20 11:47	07/31/20 01:12	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1517753	1	07/28/20 23:31	07/30/20 20:54	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1517242	1.56	07/28/20 23:31	07/30/20 02:33	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1518501	1	08/01/20 08:47	08/01/20 14:28	JDG	Mt. Juliet, TN



AH-3W (0-1') L1243725-06 Solid

Collected by Devin Dominguez  
 Collected date/time 07/24/20 00:00  
 Received date/time 07/25/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1518216	1	07/31/20 23:35	07/31/20 23:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1516371	1	07/30/20 11:47	07/31/20 01:40	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1517753	1	07/28/20 23:31	07/30/20 21:16	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1517242	1.11	07/28/20 23:31	07/30/20 02:53	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1518501	3	08/01/20 08:47	08/03/20 01:48	JN	Mt. Juliet, TN

1 Cp  
 2 Tc  
 3 Ss  
 4 Cn

AH-3W (2-3') L1243725-07 Solid

Collected by Devin Dominguez  
 Collected date/time 07/24/20 00:00  
 Received date/time 07/25/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1518216	1	07/31/20 23:35	07/31/20 23:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1516371	1	07/30/20 11:47	07/31/20 01:50	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1518116	1	07/28/20 23:31	07/31/20 18:36	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1517242	1	07/28/20 23:31	07/30/20 03:14	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1518501	2.98	08/01/20 08:47	08/03/20 01:35	JN	Mt. Juliet, TN

5 Sr  
 6 Qc  
 7 Gl  
 8 Al

AH-5W-2 (0-1') L1243725-08 Solid

Collected by Devin Dominguez  
 Collected date/time 07/23/20 00:00  
 Received date/time 07/25/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1518216	1	07/31/20 23:35	07/31/20 23:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1516371	1	07/30/20 11:47	07/31/20 01:59	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1518116	1	07/28/20 23:31	07/31/20 18:57	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1517242	1	07/28/20 23:31	07/30/20 03:34	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1518501	2.91	08/01/20 08:47	08/01/20 17:30	JDG	Mt. Juliet, TN

9 Sc

AH-5W-2 (2-3') L1243725-09 Solid

Collected by Devin Dominguez  
 Collected date/time 07/23/20 00:00  
 Received date/time 07/25/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1518216	1	07/31/20 23:35	07/31/20 23:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1516371	1	07/30/20 11:47	07/31/20 02:09	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1518116	1	07/28/20 23:31	07/31/20 19:18	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1517242	1	07/28/20 23:31	07/30/20 03:54	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1518501	2.79	08/01/20 08:47	08/03/20 02:00	JN	Mt. Juliet, TN

AH-9W-3 (0-1') L1243725-10 Solid

Collected by Devin Dominguez  
 Collected date/time 07/23/20 00:00  
 Received date/time 07/25/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1518216	1	07/31/20 23:35	07/31/20 23:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1516371	1	07/30/20 11:47	07/31/20 02:18	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1518152	1	07/28/20 23:31	07/31/20 13:51	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1517296	1	07/28/20 23:31	07/30/20 07:09	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1518501	1	08/01/20 08:47	08/01/20 15:33	JDG	Mt. Juliet, TN

AH-9W-3 (2-3') L1243725-11 Solid

Collected by Devin Dominguez  
 Collected date/time 07/23/20 00:00  
 Received date/time 07/25/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1518216	1	07/31/20 23:35	07/31/20 23:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1516371	1	07/30/20 11:47	07/31/20 02:28	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1518152	1	07/28/20 23:31	07/31/20 14:13	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1517296	1	07/28/20 23:31	07/30/20 07:29	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1518501	2.96	08/01/20 08:47	08/01/20 14:54	JDG	Mt. Juliet, TN

1 Cp  
 2 Tc  
 3 Ss  
 4 Cn

AH-1S-4 (0-1') L1243725-12 Solid

Collected by Devin Dominguez  
 Collected date/time 07/24/20 00:00  
 Received date/time 07/25/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1518216	1	07/31/20 23:35	07/31/20 23:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1516371	1	07/30/20 11:47	07/31/20 02:37	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1518152	1.01	07/28/20 23:31	07/31/20 15:21	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1517296	1	07/28/20 23:31	07/30/20 07:49	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1518400	1	07/31/20 12:52	08/01/20 02:00	TH	Mt. Juliet, TN

5 Sr  
 6 Qc  
 7 Gl  
 8 Al

AH-1S-4 (2-3') L1243725-13 Solid

Collected by Devin Dominguez  
 Collected date/time 07/24/20 00:00  
 Received date/time 07/25/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1518217	1	07/31/20 22:59	07/31/20 23:33	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1516371	1	07/30/20 11:47	07/31/20 02:47	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1519012	1	07/28/20 23:31	08/02/20 10:41	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1517296	1	07/28/20 23:31	07/30/20 08:09	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1518501	1	08/01/20 08:47	08/01/20 14:41	JDG	Mt. Juliet, TN

9 Sc

AH-1S-4 (4-5') L1243725-14 Solid

Collected by Devin Dominguez  
 Collected date/time 07/24/20 00:00  
 Received date/time 07/25/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1518217	1	07/31/20 22:59	07/31/20 23:33	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1516371	1	07/30/20 11:47	07/31/20 02:57	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1518152	1	07/28/20 23:31	07/31/20 16:05	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1517296	1	07/28/20 23:31	07/30/20 08:29	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1518400	1	07/31/20 12:52	07/31/20 22:47	TH	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.

Erica McNeese  
Project Manager

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

### Report Revision History

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Level II Report - Version 1: 08/04/20 07:50

Collected date/time: 07/23/20 00:00

L1243725

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	94.2		1	07/31/2020 23:56	<a href="#">WG1518215</a>

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	U		9.76	21.2	1	07/31/2020 00:05	<a href="#">WG1516371</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0230	0.106	1	07/30/2020 19:12	<a href="#">WG1517753</a>
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		07/30/2020 19:12	<a href="#">WG1517753</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000496	0.00106	1	07/30/2020 01:13	<a href="#">WG1517242</a>
Toluene	U		0.00138	0.00531	1	07/30/2020 01:13	<a href="#">WG1517242</a>
Ethylbenzene	U		0.000782	0.00265	1	07/30/2020 01:13	<a href="#">WG1517242</a>
Total Xylenes	U		0.000934	0.00690	1	07/30/2020 01:13	<a href="#">WG1517242</a>
(S) Toluene-d8	106			75.0-131		07/30/2020 01:13	<a href="#">WG1517242</a>
(S) 4-Bromofluorobenzene	102			67.0-138		07/30/2020 01:13	<a href="#">WG1517242</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/30/2020 01:13	<a href="#">WG1517242</a>

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	U		1.71	4.24	1	08/02/2020 22:48	<a href="#">WG1517866</a>
C28-C40 Oil Range	1.59	J	0.291	4.24	1	08/02/2020 22:48	<a href="#">WG1517866</a>
(S) o-Terphenyl	71.9			18.0-148		08/02/2020 22:48	<a href="#">WG1517866</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 07/23/20 00:00

L1243725

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.0		1	07/31/2020 23:56	<a href="#">WG1518215</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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		9.68	21.0	1	07/31/2020 00:15	<a href="#">WG1516371</a>

- 5 Sr
- 6 Qc
- 7 Gl

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		0.0228	0.105	1	07/30/2020 19:35	<a href="#">WG1517753</a>
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		07/30/2020 19:35	<a href="#">WG1517753</a>

- 8 Al
- 9 Sc

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		0.000491	0.00105	1	07/30/2020 01:33	<a href="#">WG1517242</a>
Toluene	U		0.00137	0.00526	1	07/30/2020 01:33	<a href="#">WG1517242</a>
Ethylbenzene	U		0.000775	0.00263	1	07/30/2020 01:33	<a href="#">WG1517242</a>
Total Xylenes	U		0.000926	0.00684	1	07/30/2020 01:33	<a href="#">WG1517242</a>
(S) Toluene-d8	107			75.0-131		07/30/2020 01:33	<a href="#">WG1517242</a>
(S) 4-Bromofluorobenzene	106			67.0-138		07/30/2020 01:33	<a href="#">WG1517242</a>
(S) 1,2-Dichloroethane-d4	113			70.0-130		07/30/2020 01:33	<a href="#">WG1517242</a>

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	U		1.69	4.21	1	08/02/2020 23:01	<a href="#">WG1517866</a>
C28-C40 Oil Range	3.96	J	0.288	4.21	1	08/02/2020 23:01	<a href="#">WG1517866</a>
(S) o-Terphenyl	72.8			18.0-148		08/02/2020 23:01	<a href="#">WG1517866</a>

Collected date/time: 07/24/20 00:00

L1243725

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.6		1	07/31/2020 23:44	<a href="#">WG1518216</a>

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

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		11.1	24.2	1	07/31/2020 00:34	<a href="#">WG1516371</a>

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	0.0703	<u>J V3</u>	0.0263	0.121	1	07/31/2020 19:02	<a href="#">WG1518312</a>
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120		07/31/2020 19:02	<a href="#">WG1518312</a>

Sample Narrative:

L1243725-03 WG1518312: Previous run also had low IS/SURR recovery. Matrix effect.

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		0.000664	0.00142	1	07/30/2020 01:54	<a href="#">WG1517242</a>
Toluene	U		0.00185	0.00711	1	07/30/2020 01:54	<a href="#">WG1517242</a>
Ethylbenzene	U		0.00105	0.00356	1	07/30/2020 01:54	<a href="#">WG1517242</a>
Total Xylenes	U		0.00125	0.00925	1	07/30/2020 01:54	<a href="#">WG1517242</a>
(S) Toluene-d8	105			75.0-131		07/30/2020 01:54	<a href="#">WG1517242</a>
(S) 4-Bromofluorobenzene	103			67.0-138		07/30/2020 01:54	<a href="#">WG1517242</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		07/30/2020 01:54	<a href="#">WG1517242</a>

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	U		1.95	4.84	1	08/02/2020 23:14	<a href="#">WG1517866</a>
C28-C40 Oil Range	1.43	<u>J</u>	0.332	4.84	1	08/02/2020 23:14	<a href="#">WG1517866</a>
(S) o-Terphenyl	60.4			18.0-148		08/02/2020 23:14	<a href="#">WG1517866</a>

Collected date/time: 07/24/20 00:00

L1243725

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.2		1	07/31/2020 23:44	<a href="#">WG1518216</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

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	120		9.47	20.6	1	07/31/2020 00:43	<a href="#">WG1516371</a>

- 5 Sr
- 6 Qc
- 7 Gl

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		0.0223	0.103	1	07/30/2020 20:31	<a href="#">WG1517753</a>
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		07/30/2020 20:31	<a href="#">WG1517753</a>

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		0.000481	0.00103	1	07/30/2020 02:13	<a href="#">WG1517242</a>
Toluene	U		0.00134	0.00514	1	07/30/2020 02:13	<a href="#">WG1517242</a>
Ethylbenzene	U		0.000758	0.00257	1	07/30/2020 02:13	<a href="#">WG1517242</a>
Total Xylenes	U		0.000905	0.00669	1	07/30/2020 02:13	<a href="#">WG1517242</a>
(S) Toluene-d8	108			75.0-131		07/30/2020 02:13	<a href="#">WG1517242</a>
(S) 4-Bromofluorobenzene	103			67.0-138		07/30/2020 02:13	<a href="#">WG1517242</a>
(S) 1,2-Dichloroethane-d4	103			70.0-130		07/30/2020 02:13	<a href="#">WG1517242</a>

- 8 Al
- 9 Sc

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	4.12	1	08/02/2020 23:27	<a href="#">WG1517866</a>
C28-C40 Oil Range	1.75	J	0.282	4.12	1	08/02/2020 23:27	<a href="#">WG1517866</a>
(S) o-Terphenyl	81.6			18.0-148		08/02/2020 23:27	<a href="#">WG1517866</a>

Collected date/time: 07/24/20 00:00

L1243725

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.5		1	07/31/2020 23:44	<a href="#">WG1518216</a>

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	3250		102	221	10	07/31/2020 01:12	<a href="#">WG1516371</a>

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		0.0240	0.110	1	07/30/2020 20:54	<a href="#">WG1517753</a>
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		07/30/2020 20:54	<a href="#">WG1517753</a>

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		0.000805	0.00172	1.56	07/30/2020 02:33	<a href="#">WG1517242</a>
Toluene	U		0.00224	0.00861	1.56	07/30/2020 02:33	<a href="#">WG1517242</a>
Ethylbenzene	U		0.00127	0.00431	1.56	07/30/2020 02:33	<a href="#">WG1517242</a>
Total Xylenes	U		0.00151	0.0112	1.56	07/30/2020 02:33	<a href="#">WG1517242</a>
(S) Toluene-d8	105			75.0-131		07/30/2020 02:33	<a href="#">WG1517242</a>
(S) 4-Bromofluorobenzene	103			67.0-138		07/30/2020 02:33	<a href="#">WG1517242</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/30/2020 02:33	<a href="#">WG1517242</a>

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	U		1.78	4.42	1	08/01/2020 14:28	<a href="#">WG1518501</a>
C28-C40 Oil Range	4.11	J	0.303	4.42	1	08/01/2020 14:28	<a href="#">WG1518501</a>
(S) o-Terphenyl	73.8			18.0-148		08/01/2020 14:28	<a href="#">WG1518501</a>

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



Collected date/time: 07/24/20 00:00

L1243725

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	97.2		1	07/31/2020 23:44	<a href="#">WG1518216</a>

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	U		9.47	20.6	1	07/31/2020 01:40	<a href="#">WG1516371</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0223	0.103	1	07/30/2020 21:16	<a href="#">WG1517753</a>
(S) a,a,a-Trifluorotoluene(FID)	100			77.0-120		07/30/2020 21:16	<a href="#">WG1517753</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000533	0.00114	1.11	07/30/2020 02:53	<a href="#">WG1517242</a>
Toluene	U		0.00148	0.00571	1.11	07/30/2020 02:53	<a href="#">WG1517242</a>
Ethylbenzene	U		0.000842	0.00286	1.11	07/30/2020 02:53	<a href="#">WG1517242</a>
Total Xylenes	U		0.00101	0.00743	1.11	07/30/2020 02:53	<a href="#">WG1517242</a>
(S) Toluene-d8	106			75.0-131		07/30/2020 02:53	<a href="#">WG1517242</a>
(S) 4-Bromofluorobenzene	104			67.0-138		07/30/2020 02:53	<a href="#">WG1517242</a>
(S) 1,2-Dichloroethane-d4	112			70.0-130		07/30/2020 02:53	<a href="#">WG1517242</a>

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	5.95	J	4.97	12.3	3	08/03/2020 01:48	<a href="#">WG1518501</a>
C28-C40 Oil Range	31.0		0.846	12.3	3	08/03/2020 01:48	<a href="#">WG1518501</a>
(S) o-Terphenyl	82.0			18.0-148		08/03/2020 01:48	<a href="#">WG1518501</a>

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

Collected date/time: 07/24/20 00:00

L1243725

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	97.6		1	07/31/2020 23:44	<a href="#">WG1518216</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	40.0		9.42	20.5	1	07/31/2020 01:50	<a href="#">WG1516371</a>

- 5 Sr
- 6 Qc
- 7 Gl

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0222	0.102	1	07/31/2020 18:36	<a href="#">WG1518116</a>
(S) a,a,a-Trifluorotoluene(FID)	88.7			77.0-120		07/31/2020 18:36	<a href="#">WG1518116</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000478	0.00102	1	07/30/2020 03:14	<a href="#">WG1517242</a>
Toluene	U		0.00133	0.00512	1	07/30/2020 03:14	<a href="#">WG1517242</a>
Ethylbenzene	U		0.000755	0.00256	1	07/30/2020 03:14	<a href="#">WG1517242</a>
Total Xylenes	U		0.000901	0.00666	1	07/30/2020 03:14	<a href="#">WG1517242</a>
(S) Toluene-d8	107			75.0-131		07/30/2020 03:14	<a href="#">WG1517242</a>
(S) 4-Bromofluorobenzene	105			67.0-138		07/30/2020 03:14	<a href="#">WG1517242</a>
(S) 1,2-Dichloroethane-d4	103			70.0-130		07/30/2020 03:14	<a href="#">WG1517242</a>

- 8 Al
- 9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	U		4.92	12.2	2.98	08/03/2020 01:35	<a href="#">WG1518501</a>
C28-C40 Oil Range	19.8		0.837	12.2	2.98	08/03/2020 01:35	<a href="#">WG1518501</a>
(S) o-Terphenyl	84.4			18.0-148		08/03/2020 01:35	<a href="#">WG1518501</a>

Collected date/time: 07/23/20 00:00

L1243725

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	95.1		1	07/31/2020 23:44	<a href="#">WG1518216</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	11.4	J	9.67	21.0	1	07/31/2020 01:59	<a href="#">WG1516371</a>

5 Sr

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	0.0239	J	0.0228	0.105	1	07/31/2020 18:57	<a href="#">WG1518116</a>
(S) a,a,a-Trifluorotoluene(FID)	89.7			77.0-120		07/31/2020 18:57	<a href="#">WG1518116</a>

6 Qc

7 Gl

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000491	0.00105	1	07/30/2020 03:34	<a href="#">WG1517242</a>
Toluene	U		0.00137	0.00526	1	07/30/2020 03:34	<a href="#">WG1517242</a>
Ethylbenzene	U		0.000775	0.00263	1	07/30/2020 03:34	<a href="#">WG1517242</a>
Total Xylenes	U		0.000925	0.00683	1	07/30/2020 03:34	<a href="#">WG1517242</a>
(S) Toluene-d8	104			75.0-131		07/30/2020 03:34	<a href="#">WG1517242</a>
(S) 4-Bromofluorobenzene	99.4			67.0-138		07/30/2020 03:34	<a href="#">WG1517242</a>
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/30/2020 03:34	<a href="#">WG1517242</a>

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	21.4		4.93	12.2	2.91	08/01/2020 17:30	<a href="#">WG1518501</a>
C28-C40 Oil Range	95.5		0.838	12.2	2.91	08/01/2020 17:30	<a href="#">WG1518501</a>
(S) o-Terphenyl	79.4			18.0-148		08/01/2020 17:30	<a href="#">WG1518501</a>

Collected date/time: 07/23/20 00:00

L1243725

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.7		1	07/31/2020 23:44	<a href="#">WG1518216</a>

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	33.3		9.41	20.5	1	07/31/2020 02:09	<a href="#">WG1516371</a>

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	07/31/2020 19:18	<a href="#">WG1518116</a>
(S) a,a,a-Trifluorotoluene(FID)	89.6			77.0-120		07/31/2020 19:18	<a href="#">WG1518116</a>

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		0.000478	0.00102	1	07/30/2020 03:54	<a href="#">WG1517242</a>
Toluene	U		0.00133	0.00512	1	07/30/2020 03:54	<a href="#">WG1517242</a>
Ethylbenzene	U		0.000754	0.00256	1	07/30/2020 03:54	<a href="#">WG1517242</a>
Total Xylenes	U		0.000901	0.00665	1	07/30/2020 03:54	<a href="#">WG1517242</a>
(S) Toluene-d8	106			75.0-131		07/30/2020 03:54	<a href="#">WG1517242</a>
(S) 4-Bromofluorobenzene	103			67.0-138		07/30/2020 03:54	<a href="#">WG1517242</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/30/2020 03:54	<a href="#">WG1517242</a>

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	14.2		4.59	11.5	2.79	08/03/2020 02:00	<a href="#">WG1518501</a>
C28-C40 Oil Range	46.7		0.782	11.5	2.79	08/03/2020 02:00	<a href="#">WG1518501</a>
(S) o-Terphenyl	83.3			18.0-148		08/03/2020 02:00	<a href="#">WG1518501</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 07/23/20 00:00

L1243725

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	98.4		1	07/31/2020 23:44	<a href="#">WG1518216</a>

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	38.3		9.35	20.3	1	07/31/2020 02:18	<a href="#">WG1516371</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0221	0.102	1	07/31/2020 13:51	<a href="#">WG1518152</a>
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120		07/31/2020 13:51	<a href="#">WG1518152</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000475	0.00102	1	07/30/2020 07:09	<a href="#">WG1517296</a>
Toluene	U		0.00132	0.00508	1	07/30/2020 07:09	<a href="#">WG1517296</a>
Ethylbenzene	U		0.000749	0.00254	1	07/30/2020 07:09	<a href="#">WG1517296</a>
Total Xylenes	U		0.000894	0.00661	1	07/30/2020 07:09	<a href="#">WG1517296</a>
(S) Toluene-d8	103			75.0-131		07/30/2020 07:09	<a href="#">WG1517296</a>
(S) 4-Bromofluorobenzene	102			67.0-138		07/30/2020 07:09	<a href="#">WG1517296</a>
(S) 1,2-Dichloroethane-d4	103			70.0-130		07/30/2020 07:09	<a href="#">WG1517296</a>

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	4.00	J	1.64	4.07	1	08/01/2020 15:33	<a href="#">WG1518501</a>
C28-C40 Oil Range	15.4		0.278	4.07	1	08/01/2020 15:33	<a href="#">WG1518501</a>
(S) o-Terphenyl	83.5			18.0-148		08/01/2020 15:33	<a href="#">WG1518501</a>

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

Collected date/time: 07/23/20 00:00

L1243725

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	95.8		1	07/31/2020 23:44	<a href="#">WG1518216</a>

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	121		9.60	20.9	1	07/31/2020 02:28	<a href="#">WG1516371</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0226	0.104	1	07/31/2020 14:13	<a href="#">WG1518152</a>
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120		07/31/2020 14:13	<a href="#">WG1518152</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000487	0.00104	1	07/30/2020 07:29	<a href="#">WG1517296</a>
Toluene	U		0.00136	0.00522	1	07/30/2020 07:29	<a href="#">WG1517296</a>
Ethylbenzene	U		0.000769	0.00261	1	07/30/2020 07:29	<a href="#">WG1517296</a>
Total Xylenes	U		0.000918	0.00678	1	07/30/2020 07:29	<a href="#">WG1517296</a>
(S) Toluene-d8	106			75.0-131		07/30/2020 07:29	<a href="#">WG1517296</a>
(S) 4-Bromofluorobenzene	103			67.0-138		07/30/2020 07:29	<a href="#">WG1517296</a>
(S) 1,2-Dichloroethane-d4	114			70.0-130		07/30/2020 07:29	<a href="#">WG1517296</a>

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	U		4.98	12.3	2.96	08/01/2020 14:54	<a href="#">WG1518501</a>
C28-C40 Oil Range	9.73	J	0.846	12.3	2.96	08/01/2020 14:54	<a href="#">WG1518501</a>
(S) o-Terphenyl	79.8			18.0-148		08/01/2020 14:54	<a href="#">WG1518501</a>

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

Collected date/time: 07/24/20 00:00

L1243725

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	90.9		1	07/31/2020 23:44	<a href="#">WG1518216</a>

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Chloride	31.1		10.1	22.0	1	07/31/2020 02:37	<a href="#">WG1516371</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPH (GC/FID) Low Fraction	U		0.0241	0.111	1.01	07/31/2020 15:21	<a href="#">WG1518152</a>
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120		07/31/2020 15:21	<a href="#">WG1518152</a>

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Benzene	U		0.000514	0.00110	1	07/30/2020 07:49	<a href="#">WG1517296</a>
Toluene	U		0.00143	0.00550	1	07/30/2020 07:49	<a href="#">WG1517296</a>
Ethylbenzene	U		0.000811	0.00275	1	07/30/2020 07:49	<a href="#">WG1517296</a>
Total Xylenes	U		0.000968	0.00715	1	07/30/2020 07:49	<a href="#">WG1517296</a>
(S) Toluene-d8	104			75.0-131		07/30/2020 07:49	<a href="#">WG1517296</a>
(S) 4-Bromofluorobenzene	101			67.0-138		07/30/2020 07:49	<a href="#">WG1517296</a>
(S) 1,2-Dichloroethane-d4	112			70.0-130		07/30/2020 07:49	<a href="#">WG1517296</a>

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
C10-C28 Diesel Range	8.26		1.77	4.40	1	08/01/2020 02:00	<a href="#">WG1518400</a>
C28-C40 Oil Range	28.2		0.302	4.40	1	08/01/2020 02:00	<a href="#">WG1518400</a>
(S) o-Terphenyl	76.9			18.0-148		08/01/2020 02:00	<a href="#">WG1518400</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 07/24/20 00:00

L1243725

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.9		1	07/31/2020 23:33	<a href="#">WG1518217</a>

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	35.9		10.6	23.0	1	07/31/2020 02:47	<a href="#">WG1516371</a>

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		0.0250	0.115	1	08/02/2020 10:41	<a href="#">WG1519012</a>
(S) a,a,a-Trifluorotoluene(FID)	90.1			77.0-120		08/02/2020 10:41	<a href="#">WG1519012</a>

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		0.000608	0.00130	1	07/30/2020 08:09	<a href="#">WG1517296</a>
Toluene	U		0.00169	0.00651	1	07/30/2020 08:09	<a href="#">WG1517296</a>
Ethylbenzene	U		0.000959	0.00325	1	07/30/2020 08:09	<a href="#">WG1517296</a>
Total Xylenes	U		0.00115	0.00846	1	07/30/2020 08:09	<a href="#">WG1517296</a>
(S) Toluene-d8	104			75.0-131		07/30/2020 08:09	<a href="#">WG1517296</a>
(S) 4-Bromofluorobenzene	99.7			67.0-138		07/30/2020 08:09	<a href="#">WG1517296</a>
(S) 1,2-Dichloroethane-d4	115			70.0-130		07/30/2020 08:09	<a href="#">WG1517296</a>

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	U		1.85	4.60	1	08/01/2020 14:41	<a href="#">WG1518501</a>
C28-C40 Oil Range	1.43	J	0.315	4.60	1	08/01/2020 14:41	<a href="#">WG1518501</a>
(S) o-Terphenyl	75.0			18.0-148		08/01/2020 14:41	<a href="#">WG1518501</a>

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



Collected date/time: 07/24/20 00:00

L1243725

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.9		1	07/31/2020 23:33	<a href="#">WG1518217</a>

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	25.6		9.80	21.3	1	07/31/2020 02:57	<a href="#">WG1516371</a>

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		0.0231	0.107	1	07/31/2020 16:05	<a href="#">WG1518152</a>
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120		07/31/2020 16:05	<a href="#">WG1518152</a>

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		0.000498	0.00107	1	07/30/2020 08:29	<a href="#">WG1517296</a>
Toluene	U		0.00139	0.00533	1	07/30/2020 08:29	<a href="#">WG1517296</a>
Ethylbenzene	U		0.000785	0.00266	1	07/30/2020 08:29	<a href="#">WG1517296</a>
Total Xylenes	U		0.000938	0.00693	1	07/30/2020 08:29	<a href="#">WG1517296</a>
(S) Toluene-d8	107			75.0-131		07/30/2020 08:29	<a href="#">WG1517296</a>
(S) 4-Bromofluorobenzene	106			67.0-138		07/30/2020 08:29	<a href="#">WG1517296</a>
(S) 1,2-Dichloroethane-d4	114			70.0-130		07/30/2020 08:29	<a href="#">WG1517296</a>

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	U		1.72	4.26	1	07/31/2020 22:47	<a href="#">WG1518400</a>
C28-C40 Oil Range	4.00	J	0.292	4.26	1	07/31/2020 22:47	<a href="#">WG1518400</a>
(S) o-Terphenyl	75.2			18.0-148		07/31/2020 22:47	<a href="#">WG1518400</a>

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

Total Solids by Method 2540 G-2011

[L1243725-01,02](#)

Method Blank (MB)

(MB) R3555383-1 07/31/20 23:56

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

L1243725-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1243725-01 07/31/20 23:56 • (DUP) R3555383-3 07/31/20 23:56

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	94.2	94.3	1	0.0190		10

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3555383-2 07/31/20 23:56

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

W01518216  
Total Solids by Method 2540 G-2011

[L1243725-03,04,05,06,07,08,09,10,11,12](#)

### Method Blank (MB)

(MB) R3555382-1 07/31/20 23:44

Analyte	MB Result %	<u>MB Qualifier</u>	MB MDL %	MB RDL %
Total Solids	0.00300			

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

### L1243725-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1243725-03 07/31/20 23:44 • (DUP) R3555382-3 07/31/20 23:44

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits
Total Solids	82.6	82.5	1	0.136		10

### Laboratory Control Sample (LCS)

(LCS) R3555382-2 07/31/20 23:44

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

Total Solids by Method 2540 G-2011

[L1243725-13,14](#)

Method Blank (MB)

(MB) R3555381-1 07/31/20 23:33

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1243727-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1243727-01 07/31/20 23:33 • (DUP) R3555381-3 07/31/20 23:33

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Total Solids	92.4	92.5	1	0.189		10

Laboratory Control Sample (LCS)

(LCS) R3555381-2 07/31/20 23:33

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

Wet Chemistry by Method 300.0

[L1243725-01,02,03,04,05,06,07,08,09,10,11,12,13,14](#)

Method Blank (MB)

(MB) R3555058-1 07/30/20 23:46

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		9.20	20.0

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1243725-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1243725-02 07/31/20 00:15 • (DUP) R3555058-3 07/31/20 00:24

Analyte	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	U	U	1	0.000		20

L1243727-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1243727-03 07/31/20 03:44 • (DUP) R3555058-6 07/31/20 03:54

Analyte	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	11.3	11.1	1	2.37	↓	20

Laboratory Control Sample (LCS)

(LCS) R3555058-2 07/30/20 23:56

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	200	192	96.2	90.0-110	

L1243725-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1243725-04 07/31/20 00:43 • (MS) R3555058-4 07/31/20 00:53 • (MSD) R3555058-5 07/31/20 01:02

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	514	120	626	631	98.4	99.4	1	80.0-120			0.881	20

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

[L1243725-01,02,04,05,06](#)

Method Blank (MB)

(MB) R3555070-2 07/30/20 13:27

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
<sup>(S)</sup> a,a,a-Trifluorotoluene(FID)	103			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3555070-1 07/30/20 12:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.38	97.8	72.0-127	
<sup>(S)</sup> a,a,a-Trifluorotoluene(FID)			102	77.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

[L1243725-07,08,09](#)

Method Blank (MB)

(MB) R3555175-2 07/31/20 10:18

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)	93.3			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3555175-1 07/31/20 09:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.38	97.8	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			108	77.0-120	

L1244447-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1244447-03 07/31/20 12:25 • (MS) R3555175-3 07/31/20 12:45 • (MSD) R3555175-4 07/31/20 13:06

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	1350	60.1	796	825	54.4	56.6	200	10.0-151			3.52	28
(S) a,a,a-Trifluorotoluene(FID)					101	102		77.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

[L1243725-10,11,12,14](#)

Method Blank (MB)

(MB) R3555189-2 07/31/20 11:46

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	105			77.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3555189-1 07/31/20 11:01

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.63	121	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			106	77.0-120	

L1244028-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1244028-03 07/31/20 20:11 • (MS) R3555189-3 07/31/20 20:55 • (MSD) R3555189-4 07/31/20 21:18

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TPH (GC/FID) Low Fraction	550	601	998	968	72.2	66.7	100	10.0-151			3.05	28
(S) a,a,a-Trifluorotoluene(FID)					102	99.8		77.0-120				



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

L1243725-03

Method Blank (MB)

(MB) R3555486-1 07/31/20 09:53

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)	108			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3555486-2 07/31/20 17:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.78	105	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			101	77.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

[L1243725-13](#)

Method Blank (MB)

(MB) R3555643-3 08/02/20 09:13

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)	94.0			77.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS)

(LCS) R3555643-2 08/02/20 08:32

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.93	89.6	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			107	77.0-120	

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

[L1243725-01,02,03,04,05,06,07,08,09](#)

Method Blank (MB)

(MB) R3554847-3 07/29/20 22:31

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	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	107			75.0-131
(S) 4-Bromofluorobenzene	103			67.0-138
(S) 1,2-Dichloroethane-d4	111			70.0-130

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

(LCS) R3554847-1 07/29/20 21:11 • (LCSD) R3554847-2 07/29/20 21:31

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Benzene	0.125	0.110	0.105	88.0	84.0	70.0-123			4.65	20
Ethylbenzene	0.125	0.113	0.112	90.4	89.6	74.0-126			0.889	20
Toluene	0.125	0.110	0.109	88.0	87.2	75.0-121			0.913	20
Xylenes, Total	0.375	0.348	0.342	92.8	91.2	72.0-127			1.74	20
(S) Toluene-d8				104	103	75.0-131				
(S) 4-Bromofluorobenzene				99.9	104	67.0-138				
(S) 1,2-Dichloroethane-d4				114	116	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

[L1243725-10,11,12,13,14](#)

Method Blank (MB)

(MB) R3555463-2 07/30/20 05:54

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	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	102			67.0-138
(S) 1,2-Dichloroethane-d4	98.4			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3555463-1 07/30/20 04:54

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
Benzene	0.125	0.113	90.4	70.0-123	
Ethylbenzene	0.125	0.113	90.4	74.0-126	
Toluene	0.125	0.111	88.8	75.0-121	
Xylenes, Total	0.375	0.351	93.6	72.0-127	
(S) Toluene-d8			105	75.0-131	
(S) 4-Bromofluorobenzene			107	67.0-138	
(S) 1,2-Dichloroethane-d4			119	70.0-130	

L1243728-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1243728-04 07/30/20 09:48 • (MS) R3555463-3 07/30/20 13:28 • (MSD) R3555463-4 07/30/20 13:48

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Benzene	0.129	U	0.139	0.127	107	98.4	1	10.0-149			8.63	37
Ethylbenzene	0.129	U	0.145	0.131	112	102	1	10.0-160			9.81	38
Toluene	0.129	U	0.141	0.131	109	102	1	10.0-156			6.90	38
Xylenes, Total	0.387	0.00105	0.430	0.403	111	104	1	10.0-160			6.50	38
(S) Toluene-d8					101	104		75.0-131				
(S) 4-Bromofluorobenzene					103	107		67.0-138				
(S) 1,2-Dichloroethane-d4					102	110		70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

[L1243725-01,02,03,04](#)

Method Blank (MB)

(MB) R3555610-1 08/02/20 17:10

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	72.4			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3555610-2 08/02/20 17:23

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	34.0	68.0	50.0-150	
(S) o-Terphenyl		77.0		18.0-148	

L1243607-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1243607-07 08/02/20 21:57 • (MS) R3555610-3 08/02/20 22:10 • (MSD) R3555610-4 08/02/20 22:23

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	48.6	36.8	66.1	61.8	60.3	51.4	1	50.0-150			6.72	20
(S) o-Terphenyl					75.6	59.6		18.0-148				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

[L1243725-12,14](#)

Method Blank (MB)

(MB) R3555333-1 07/31/20 16:05

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	83.8			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3555333-2 07/31/20 16:19

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	37.1	74.2	50.0-150	
(S) o-Terphenyl			71.3	18.0-148	

L1243727-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1243727-03 08/01/20 01:22 • (MS) R3555433-1 08/01/20 01:35 • (MSD) R3555433-2 08/01/20 01:47

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	50.6	5.41	45.3	39.3	79.0	67.0	1	50.0-150			14.3	20
(S) o-Terphenyl					75.9	67.8		18.0-148				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

[L1243725-05,06,07,08,09,10,11,13](#)

Method Blank (MB)

(MB) R3555544-1 08/01/20 13:49

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	74.6			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3555544-2 08/01/20 14:02

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	41.3	82.6	50.0-150	
(S) o-Terphenyl			89.9	18.0-148	

L1243649-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1243649-01 08/01/20 16:25 • (MS) R3555544-3 08/01/20 16:38 • (MSD) R3555544-4 08/01/20 16:51

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	49.8	18.8	50.8	59.1	64.3	80.9	1	50.0-150			15.1	20
(S) o-Terphenyl					57.4	61.4		18.0-148				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## 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
J	The identification of the analyte is acceptable; the reported value is an estimate.
V3	The internal standard exhibited poor recovery due to sample matrix interference. The analytical results will be biased high. BDL results will be unaffected.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



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 <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	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	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	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

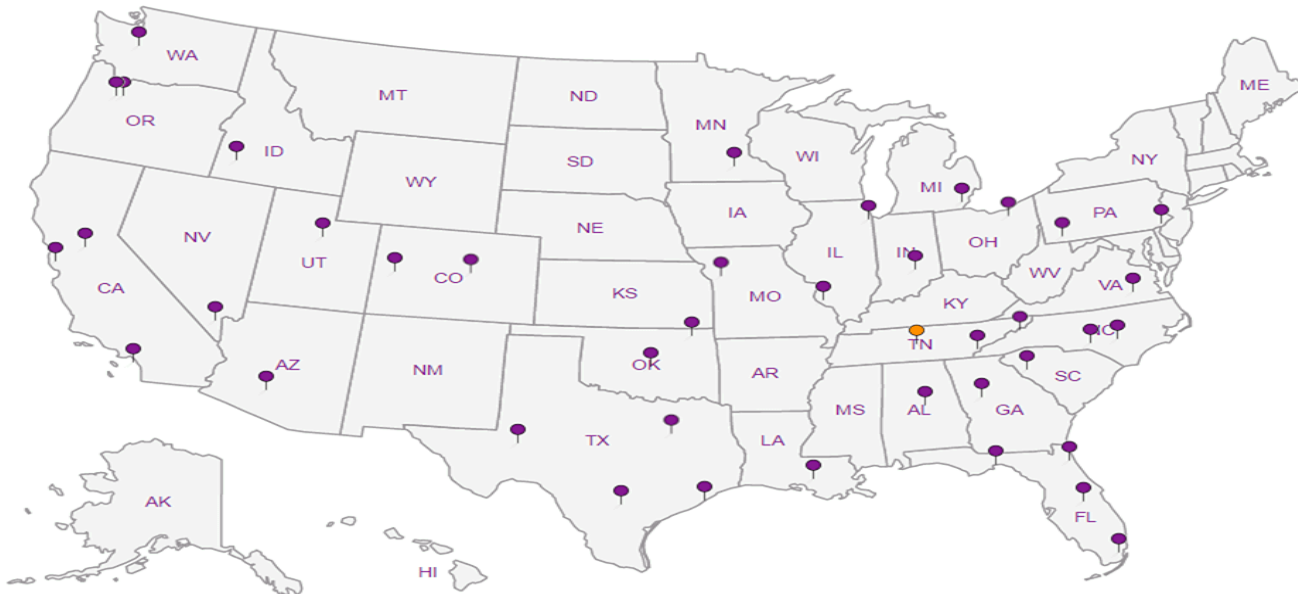
### Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





# Tetra Tech, Inc.

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

61243725

<b>Client Name:</b>	Conoco Phillips	<b>Site Manager:</b>	Christian Llull
<b>Project Name:</b>	MCA 2-C Header	<b>Contact Info:</b>	Email: christian.llull@tetratech.com Phone: (512) 338-1667
<b>Project Location:</b> <b>(county, state)</b>	Lea County, New Mexico	<b>Project #:</b>	212C-MD-02119
<b>Invoice to:</b>	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
<b>Receiving Laboratory:</b>	Pace Analytical	<b>Sampler Signature:</b>	Devin Dominguez

**ANALYSIS REQUEST**  
**(Circle or Specify Method No.)**

**Comments:** COPTETRA Acctnum

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)																										
		YEAR: 2020	DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE			NONE	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				
11	AH-9W-3 (2-3')	7/23/2020			X			X		1	N	X	X																								
12	AH-1S-4 (0-1')	7/24/2020			X			X		1	N	X	X																								
13	AH-1S-4 (2-3')	7/24/2020			X			X		1	N	X	X																								
14	AH-1S-4 (4-5')	7/24/2020			X			X		1	N	X	X																								

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	7/24	15:00		7/24/20	15:00
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	7/24/20	17:00	Edt +	7/24/20	17:00
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

**LAB USE ONLY**

Sample Temperature

**REMARKS:**

Standard

RUSH: Same Day 24 hr. 48 hr. 72 hr.

Rush Charges Authorized

Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #: \_\_\_\_\_

3.4 - 2 = 3.2

Released to Imaging: 7/28/2021 1:49:11 PM

Received by: OCD: 4/20/2021 3:54:01 PM

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Pace Analytical National Center for Testing & Innovation Cooler Receipt Form			
Client: <i>Tetra Tech</i>	<i>L1243725</i>		
Cooler Received/Opened On: <i>7 / 25 / 20</i>	Temperature:	<i>3.2</i>	
Received By: <i>Bryan Burgess</i>			
Signature: <i>[Signature]</i>			
Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	<input checked="" type="checkbox"/>		
COC Signed / Accurate?		<input checked="" type="checkbox"/>	
Bottles arrive intact?		<input checked="" type="checkbox"/>	
Correct bottles used?		<input checked="" type="checkbox"/>	
Sufficient volume sent?		<input checked="" type="checkbox"/>	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			



Released to Imaging: 7/28/2021 1:49:11 PM

Received by OCD: 4/20/2021 3:54:01 PM



# Tetra Tech, Inc.

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

L1243725

Client Name: Conoco Phillips	Site Manager: Christian Llull
Project Name: MCA 2-C Header	Contact Info: Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: 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: Devin Dominguez

## ANALYSIS REQUEST (Circle or Specify Method No.)

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	RCL	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
------------	------------	-------------------------	-----------------------------------	-----------	--------------------------------------	-------------------------------------	----------------	---------------------	-----	------------------------	----------------------------	------------------	------	----------------	----------------	----------------------	---	----------------------	-----------	------

Comments: COPTETRA Acctnum

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		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	RCL	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		WATER	SOIL	HCL	HNO <sub>3</sub>	ICE	NONE																												
		DATE	TIME																																		
11	AH-9W-3 (2-3')	7/23/2020		X			X			1	N	X	X																								
12	AH-1S-4 (0-1')	7/24/2020		X			X			1	N	X	X														X										
13	AH-1S-4 (2-3')	7/24/2020		X			X			1	N	X	X														X										
14	AH-1S-4 (4-5')	7/24/2020		X			X			1	N	X	X														X										

Relinquished by:	Date: 7/24	Time: 15:00	Received by:	Date: 7/24/20	Time: 15:00
Relinquished by:	Date: 7/24/20	Time: 17:00	Received by:	Date: 7/24/20	Time: 17:00
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS:
	<input checked="" type="checkbox"/> Standard
	<input type="checkbox"/> RUSH: Same Day 24 hr. 48 hr. 72 hr.
	<input type="checkbox"/> Rush Charges Authorized
	<input type="checkbox"/> Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #: \_\_\_\_\_

3.4 - 2 = 3.2

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# **APPENDIX D**

## **Soil Boring Logs**

212C-MD-02119	<b>TETRA TECH</b>	<b>LOG OF BORING AH-1E</b>	Page 1 of 1
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Project Name: MCA 300 Flowline Release

Borehole Location: GPS: 32.802329°, -103.769669°      Surface Elevation: 3951 ft

Borehole Number: AH-1E      Borehole Diameter (in.): 2      Date Started: 3/2/2020      Date Finished: 3/2/2020

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		
												While Drilling	Upon Completion of Drilling	DEPTH (ft)
			ExStik	PID								WATER LEVEL OBSERVATIONS While Drilling <u>∇</u> DRY ft    Upon Completion of Drilling <u>∇</u> DRY ft Remarks:		
												MATERIAL DESCRIPTION		
												-SP- SAND: Tan, loose, medium grained to fine grained, with no odor, with no staining.	2	AH-1E (0'-1')
												-CL- SANDY CLAY; Reddish brown, medium stiff to stiff, with no odor, with no staining.	4	AH-1E (0'-1')

Bottom of borehole at 4.0 feet.

<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample	Acetate Liner Vane Shear California Test Pit	<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Wash Rotary	Hand Auger Air Rotary Direct Push Core Barrel	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.
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Logger: Adrian Garcia      Drilling Equipment: Hand Auger      Driller: Tetra Tech



212C-MD-02119	<b>TETRA TECH</b>	<b>LOG OF BORING AH-1S</b>	Page 1 of 1
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Project Name: MCA 300 Flowline Release

Borehole Location: GPS: 32.802234°, -103.769734°      Surface Elevation: 3950 ft

Borehole Number: AH-1S      Borehole Diameter (in.): 2      Date Started: 3/2/2020      Date Finished: 3/2/2020

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		
												While Drilling	Upon Completion of Drilling	DEPTH (ft)
			ExStik	PID								WATER LEVEL OBSERVATIONS While Drilling <u>∇</u> DRY ft    Upon Completion of Drilling <u>∇</u> DRY ft Remarks:		
												MATERIAL DESCRIPTION		
												-SP- SAND: Tan, loose, medium grained to fine grained, with no odor, with no staining.	2	AH-1S (0'-1')
												-CL- SANDY CLAY; Reddish brown, medium stiff to stiff, with no odor, with no staining.	4	AH-1S (0'-1')

Bottom of borehole at 4.0 feet.

<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample Acetate Liner Vane Shear California Test Pit	<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Wash Rotary Hand Auger Air Rotary Direct Push Core Barrel	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.
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Logger: Adrian Garcia      Drilling Equipment: Hand Auger      Driller: Tetra Tech

212C-MD-02119	<b>TETRA TECH</b>	<b>LOG OF BORING AH-1W</b>	Page 1 of 1
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Project Name: MCA 300 Flowline Release

Borehole Location: GPS: 32.802323°, -103.769840°      Surface Elevation: 3951 ft

Borehole Number: AH-1W      Borehole Diameter (in.): 2      Date Started: 3/2/2020      Date Finished: 3/2/2020

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS			
												While Drilling	Upon Completion of Drilling	DEPTH (ft)	REMARKS
			ExStik	PID								While Drilling <u>∇</u> DRY ft    Upon Completion of Drilling <u>∇</u> DRY ft Remarks:			
			27	0								-SP-	SAND: Tan, loose, medium grained to fine grained, with no odor, with no staining.	2	AH-1W (0'-1')
			56	0								-CL-	SANDY CLAY; Reddish brown, medium stiff to stiff, with no odor, with no staining.	4	AH-1W (0'-1')

Bottom of borehole at 4.0 feet.

<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample	Acetate Liner Vane Shear California Test Pit	<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Wash Rotary	Hand Auger Air Rotary Direct Push Core Barrel	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.
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Logger: Adrian Garcia      Drilling Equipment: Hand Auger      Driller: Tetra Tech

212C-MD-02119	<b>TETRA TECH</b>	<b>LOG OF BORING AH-2E</b>	Page 1 of 1
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Project Name: MCA 300 Flowline Release

Borehole Location: GPS: 32.802473°, -103.769701°      Surface Elevation: 3951 ft

Borehole Number: AH-2E      Borehole Diameter (in.): 2      Date Started: 3/2/2020      Date Finished: 3/2/2020

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		
												While Drilling	Upon Completion of Drilling	DEPTH (ft)
			ExStik	PID								WATER LEVEL OBSERVATIONS While Drilling <u>∇</u> DRY ft    Upon Completion of Drilling <u>∇</u> DRY ft Remarks:		
												MATERIAL DESCRIPTION		
			58	0								-SP- SAND: Tan, loose, medium grained to fine grained, with no odor, with no staining.	2	AH-2E (0'-1')
			26	0								-CL- SANDY CLAY; Reddish brown, medium stiff to stiff, with no odor, with no staining.	4	AH-2E (0'-1')

Bottom of borehole at 4.0 feet.

<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample	Acetate Liner Vane Shear California Test Pit	<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Wash Rotary	Hand Auger Air Rotary Direct Push Core Barrel	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.
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Logger: Adrian Garcia      Drilling Equipment: Hand Auger      Driller: Tetra Tech

212C-MD-02119	<b>TETRA TECH</b>	<b>LOG OF BORING AH-2W</b>	Page 1 of 1
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Project Name: MCA 300 Flowline Release

Borehole Location: GPS: 32.802470°, -103.769875°      Surface Elevation: 3951 ft

Borehole Number: AH-2W      Borehole Diameter (in.): 2      Date Started: 3/2/2020      Date Finished: 3/2/2020

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		
												While Drilling	Upon Completion of Drilling	DEPTH (ft)
			ExStik	PID								WATER LEVEL OBSERVATIONS While Drilling <u>∇</u> DRY ft    Upon Completion of Drilling <u>∇</u> DRY ft Remarks:		
												MATERIAL DESCRIPTION		
			54	0								-SP- SAND: Tan, loose, medium grained to fine grained, with no odor, with no staining.	2	AH-2W (0'-1')
			480	0								-CL- SANDY CLAY; Reddish brown, medium stiff to stiff, with no odor, with no staining.	4	AH-2W (0'-1')

Bottom of borehole at 4.0 feet.

<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample	Acetate Liner Vane Shear California Test Pit	<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Wash Rotary	Hand Auger Air Rotary Direct Push Core Barrel	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.
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Logger: Adrian Garcia      Drilling Equipment: Hand Auger      Driller: Tetra Tech

212C-MD-02119	<b>TETRA TECH</b>	<b>LOG OF BORING AH-3E</b>	Page 1 of 1
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Project Name: MCA 300 Flowline Release

Borehole Location: GPS: 32.802614°, -103.769760°      Surface Elevation: 3951 ft

Borehole Number: AH-3E      Borehole Diameter (in.): 2      Date Started: 3/3/2020      Date Finished: 3/3/2020

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		
												While Drilling	Upon Completion of Drilling	DEPTH (ft)
												While Drilling <u>∇</u> DRY ft    Upon Completion of Drilling <u>∇</u> DRY ft Remarks:		
			ExStik	PID				LL	PI			MATERIAL DESCRIPTION		
			54	0								-SP- SAND: Tan, loose, medium grained to fine grained, with no odor, with no staining.	2	AH-3E (0'-1')
			120	0								-CL- SANDY CLAY; Reddish tan, medium stiff to stiff, with no odor, with no staining.	4	AH-3E (0'-1')

Bottom of borehole at 4.0 feet.

<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample	Acetate Liner Vane Shear California Test Pit	<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Wash Rotary	Hand Auger Air Rotary Direct Push Core Barrel	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.
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Logger: Adrian Garcia      Drilling Equipment: Hand Auger      Driller: Tetra Tech

212C-MD-02119	<b>TETRA TECH</b>	<b>LOG OF BORING AH-3W</b>	Page 1 of 1
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Project Name: MCA 300 Flowline Release

Borehole Location: GPS: 32.802601°, -103.769890°      Surface Elevation: 3951 ft

Borehole Number: AH-3W      Borehole Diameter (in.): 2      Date Started: 3/3/2020      Date Finished: 3/3/2020

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		
												While Drilling	Upon Completion of Drilling	DEPTH (ft)
			ExStik	PID				LL	PI			WATER LEVEL OBSERVATIONS While Drilling <u>∇</u> DRY ft    Upon Completion of Drilling <u>∇</u> DRY ft Remarks:		
												MATERIAL DESCRIPTION		
												-SP- SAND: Tan, loose, medium grained to fine grained, with no odor, with no staining.	2	AH-3W (0'-1')
												-CL- SANDY CLAY; Reddish tan, medium stiff to stiff, with no odor, with no staining.	4	AH-3W (0'-1')

Bottom of borehole at 4.0 feet.

<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample	Acetate Liner Vane Shear California Test Pit	<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Wash Rotary	Hand Auger Air Rotary Direct Push Core Barrel	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.
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Logger: Adrian Garcia      Drilling Equipment: Hand Auger      Driller: Tetra Tech

212C-MD-02119	<b>TETRA TECH</b>	<b>LOG OF BORING AH-4E</b>	Page 1 of 1
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Project Name: MCA 300 Flowline Release

Borehole Location: GPS: 32.802742°, -103.769778°      Surface Elevation: 3952 ft

Borehole Number: AH-4E      Borehole Diameter (in.): 2      Date Started: 3/3/2020      Date Finished: 3/3/2020

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		DEPTH (ft)	REMARKS
												While Drilling	Upon Completion of Drilling		
												While Drilling <u>∇</u> DRY ft    Upon Completion of Drilling <u>∇</u> DRY ft Remarks:			
			ExStik	PID				LL	PI			<b>MATERIAL DESCRIPTION</b>			
			26	0.1								- <b>SM</b> - SILTY SAND; Red, loose, fine grained, with no odor, with no staining.	2	AH-4E (0'-1')	
			1400	0								- <b>ML</b> - SILT; White, dense, caliche, with no odor, with no staining.	4	AH-4E (0'-1')	

Bottom of borehole at 4.0 feet.

<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample Acetate Liner Vane Shear California Test Pit	<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Wash Rotary Hand Auger Air Rotary Direct Push Core Barrel	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.
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Logger: Adrian Garcia      Drilling Equipment: Hand Auger      Driller: Tetra Tech

212C-MD-02119	<b>TETRA TECH</b>	<b>LOG OF BORING AH-4W</b>	Page 1 of 1
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Project Name: MCA 300 Flowline Release

Borehole Location: GPS: 32.802723°, -103.769913°      Surface Elevation: 3952 ft

Borehole Number: AH-4W      Borehole Diameter (in.): 2      Date Started: 3/3/2020      Date Finished: 3/3/2020

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		DEPTH (ft)	REMARKS
												While Drilling	Upon Completion of Drilling		
												While Drilling <u>∇</u> DRY ft    Upon Completion of Drilling <u>∇</u> DRY ft Remarks:			
			ExStik	PID				LL	PI			<b>MATERIAL DESCRIPTION</b>			
			23	0								- <b>SM</b> - SILTY SAND; Red, loose, fine grained, with no odor, with no staining.	2	AH-4W (0'-1')	
			695	0								- <b>ML</b> - SILT; White, dense, caliche, with no odor, with no staining.	4	AH-4W (0'-1')	

Bottom of borehole at 4.0 feet.

<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample	Acetate Liner Vane Shear California Test Pit	<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Wash Rotary	Hand Auger Air Rotary Direct Push Core Barrel	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.
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Logger: Adrian Garcia      Drilling Equipment: Hand Auger      Driller: Tetra Tech



212C-MD-02119	<b>TETRA TECH</b>	<b>LOG OF BORING AH-11E</b>	Page 1 of 1
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Project Name: MCA 300 Flowline Release

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

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS			
												While Drilling	Upon Completion of Drilling	DEPTH (ft)	REMARKS
			ExStik	PID								WATER LEVEL OBSERVATIONS While Drilling <u>∇</u> DRY ft    Upon Completion of Drilling <u>∇</u> DRY ft Remarks:			
			54	0											
			325	0											

Bottom of borehole at 4.0 feet.

<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample Acetate Liner Vane Shear California Test Pit	<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Wash Rotary Hand Auger Air Rotary Direct Push Core Barrel	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.
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Logger: Adrian Garcia      Drilling Equipment: Hand Auger      Driller: Tetra Tech

212C-MD-02119	<b>TETRA TECH</b>	<b>LOG OF BORING AH-11W</b>	Page 1 of 1
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Project Name: MCA 300 Flowline Release

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

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS			
												While Drilling	Upon Completion of Drilling	DEPTH (ft)	REMARKS
			ExStik	PID								WATER LEVEL OBSERVATIONS While Drilling <u>∇</u> DRY ft    Upon Completion of Drilling <u>∇</u> DRY ft Remarks:			
			38	0											
			413	0											

Bottom of borehole at 4.0 feet.

<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample Acetate Liner Vane Shear California Test Pit	<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Wash Rotary Hand Auger Air Rotary Direct Push Core Barrel	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.
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Logger: Adrian Garcia      Drilling Equipment: Hand Auger      Driller: Tetra Tech

212C-MD-02119	<b>TETRA TECH</b>	<b>LOG OF TEST PIT T-1</b>	Page 1 of 1
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Project Name: MCA 300 Flowline Release

Test Pit Location: GPS: 32.802324°, -103.769746°      Surface Elevation: 3951 ft

Test Pit Number: T-1      Hand Auger Diameter (in.): 2      Date Started: 3/2/2020      Date Finished: 3/2/2020

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		
												While Exc.	Upon Completion of Exc.	DEPTH (ft)
			ExStik	PID								WATER LEVEL OBSERVATIONS While Exc. <u>∇</u> DRY ft    Upon Completion of Exc. <u>∇</u> DRY ft Remarks:		
5			395	0.1								-SP- SANDY CLAY; Reddish brown, medium stiff to stiff, with no odor, with no staining.	4.5	T-1 (1'-2')
			390									-ML- SILT; Pink, dense, calicle, with no odor, with no staining.	6	T-1 (3'-4')
			190	0										T-1 (5'-6')

Bottom of borehole at 6.0 feet.

<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample	Acetate Liner Vane Shear California	<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Test Pit	Hand Auger Air Rotary Direct Push Core Barrel	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value. Soil samples were collected via hand auger.
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Logger: Adrian Garcia      Exc. Equipment: Mini-Excavator      Contractor: McNabb Services, Inc.

212C-MD-02119	<b>TETRA TECH</b>	<b>LOG OF TEST PIT T-2</b>	Page 1 of 1
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Project Name: MCA 300 Flowline Release

Test Pit Location: GPS: 32.802473°, -103.769800°      Surface Elevation: 3951 ft

Test Pit Number: T-2      Hand Auger Diameter (in.): 2      Date Started: 3/2/2020      Date Finished: 3/2/2020

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		
												While Exc. <input type="checkbox"/> <u>DRY</u> ft	Upon Completion of Exc. <input type="checkbox"/> <u>DRY</u> ft	DEPTH (ft)
												Remarks:		
												<b>MATERIAL DESCRIPTION</b>		
5			400	0								-CL- SANDY CLAY; Reddish brown, medium stiff to stiff, with no odor, with no staining.	4.5	T-2 (1'-2')
			200									-ML- SILT; Pink, dense, calicle, with no odor, with no staining.	6	T-2 (3'-4')
			315											T-2 (5'-6')

Bottom of borehole at 6.0 feet.

<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample	Acetate Liner Vane Shear California	<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Test Pit	Hand Auger Air Rotary Direct Push Core Barrel	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value. Soil samples were collected via hand auger.
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Logger: Adrian Garcia      Exc. Equipment: Mini-Excavator      Contractor: McNabb Services, Inc.

212C-MD-02119	<b>TETRA TECH</b>	<b>LOG OF TEST PIT T-3</b>	Page 1 of 1
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Project Name: MCA 300 Flowline Release

Test Pit Location: GPS: 32.802610°, -103.769826°      Surface Elevation: 3951 ft

Test Pit Number: T-3      Hand Auger Diameter (in.): 2      Date Started: 3/3/2020      Date Finished: 3/3/2020

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS			
												While Exc.	Upon Completion of Exc.	DEPTH (ft)	REMARKS
			ExStik	PID									WATER LEVEL OBSERVATIONS While Exc. <u>∇</u> DRY ft    Upon Completion of Exc. <u>∇</u> DRY ft  Remarks:		
5			1929	499											T-3 (1'-2')
			2400	4.8											T-3 (3'-4')
			1200	2.2											T-3 (5'-6')
			1250	3											T-3 (6'-7')
			1220												T-3 (8'-9')
10			924												T-3 (10'-11')

Bottom of borehole at 11.0 feet.

<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample	Acetate Liner Vane Shear California	<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Test Pit	Hand Auger Air Rotary Direct Push Core Barrel	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value. Soil samples were collected via hand auger.
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Logger: Adrian Garcia      Exc. Equipment: Mini-Excavator      Contractor: McNabb Services, Inc.

212C-MD-02119	<b>TETRA TECH</b>	<b>LOG OF TEST PIT T-4</b>	Page 1 of 1
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Project Name: MCA 300 Flowline Release

Test Pit Location: GPS: 32.802732°, -103.769844°      Surface Elevation: 3952 ft

Test Pit Number: T-4      Hand Auger Diameter (in.): 2      Date Started: 3/3/2020      Date Finished: 3/3/2020

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS	
												While Exc.	Upon Completion of Exc.
			ExStik	PID								WATER LEVEL OBSERVATIONS While Exc. <u>∇</u> DRY ft    Upon Completion of Exc. <u>∇</u> DRY ft Remarks:	
5			2500	547								4	-CL- SANDY CLAY; Reddish brown, medium stiff to stiff, with moderate odor, with no staining.
			4750	3.7									T-5 (1'-2')
			6600	1.3									T-4 (2'-4')
			5500										T-4 (4'-6')
												9	T-4 (8'-9')

Bottom of borehole at 9.0 feet.

<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample	Acetate Liner Vane Shear California	<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Test Pit	Hand Auger Air Rotary Direct Push Core Barrel	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value. Soil samples were collected via hand auger.
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Logger: Adrian Garcia      Exc. Equipment: Mini-Excavator      Contractor: McNabb Services, Inc.

212C-MD-02119	<b>TETRA TECH</b>	<b>LOG OF TEST PIT T-11</b>	Page 1 of 1
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Project Name: MCA 300 Flowline Release

Test Pit Location: GPS: 32.803023°, -103.769923°      Surface Elevation: 3954 ft

Test Pit Number: T-11      Hand Auger Diameter (in.): 2      Date Started: 3/9/2020      Date Finished: 3/9/2020

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS	
												While Exc.	Upon Completion of Exc.
			ExStik	PID								WATER LEVEL OBSERVATIONS While Exc. <u>∇</u> DRY ft    Upon Completion of Exc. <u>∇</u> DRY ft Remarks:	
5			1200	0.3								2.5	-SM- SILTY SAND; Red, loose, fine grained, with no odor, with no staining. T-11 (1'-2')
			1900	0								4.5	-CL- SANDY CLAY; Reddish brown, medium stiff to stiff, with no odor, with no staining. T-11 (3'-4')
			2400	0								12	-ML- SILT; Pink, dense, caliche, with no odor, with no staining. T-11 (5'-6')
10			1200	0								12	T-11 (7'-8')
			1250	0								12	T-11 (9'-10')
15			450	0								15	-ML- SILT; Light pink white, loose, caliche, with no odor, with no staining. T-11 (14'-15')

Bottom of borehole at 15.0 feet.

<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample Acetate Liner Vane Shear California	<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Test Pit Hand Auger Air Rotary Direct Push Core Barrel	<b>Notes:</b> Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value. Soil samples were collected via hand auger.
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Logger: Adrian Garcia      Exc. Equipment: Mini-Excavator      Contractor: McNabb Services, Inc.

# **APPENDIX E**

## **Photographic Documentation**





TETRA TECH, INC. PROJECT NO. 212C-MD-02119	DESCRIPTION	View of initial response activities inside footprint of the MCA 300 Release Site looking north from south end.	1
	SITE NAME	ConocoPhillips MCA 300 Flowline Release	2/21/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02119	DESCRIPTION	View of initial response activities inside footprint of the MCA 300 Release Site looking northeast.	2
	SITE NAME	ConocoPhillips MCA 300 Flowline Release	2/21/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02119	DESCRIPTION	View of initial response activities inside footprint of the MCA 300 Release Site looking northwest.	3
	SITE NAME	ConocoPhillips MCA 300 Flowline Release	2/21/2020

## **APPENDIX F NMSLO Seed Mixture Details**



A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

# Custom Soil Resource Report for Lea County, New Mexico

## MCA 300 FL Release



March 22, 2021

# Preface

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Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist ([http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2\\_053951](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951)).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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## How Soil Surveys Are Made

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Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil



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scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

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identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

## Soil Map

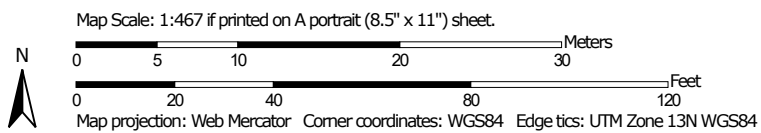
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The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

### Custom Soil Resource Report Soil Map




Soil Map may not be valid at this scale.



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**MAP LEGEND**

**Area of Interest (AOI)**

 Area of Interest (AOI)




















**Soils**







 Soil Map Unit Polygons

 Soil Map Unit Lines


 Soil Map Unit Points

**Special Point Features**






-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features

**Water Features**

 Streams and Canals

**Transportation**

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

**Background**

 Aerial Photography

**MAP INFORMATION**

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL:  
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico  
 Survey Area Data: Version 17, Jun 8, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

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## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
MF	Maljamar and Palomas fine sands, 0 to 3 percent slopes	0.1	100.0%
<b>Totals for Area of Interest</b>		<b>0.1</b>	<b>100.0%</b>

## Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

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An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

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**Lea County, New Mexico****MF—Maljamar and Palomas fine sands, 0 to 3 percent slopes****Map Unit Setting***National map unit symbol:* dmqb*Elevation:* 3,000 to 3,900 feet*Mean annual precipitation:* 10 to 15 inches*Mean annual air temperature:* 60 to 62 degrees F*Frost-free period:* 190 to 205 days*Farmland classification:* Farmland of statewide importance**Map Unit Composition***Maljamar and similar soils:* 46 percent*Palomas and similar soils:* 44 percent*Minor components:* 10 percent*Estimates are based on observations, descriptions, and transects of the mapunit.***Description of Maljamar****Setting***Landform:* Plains*Landform position (three-dimensional):* Rise*Down-slope shape:* Linear*Across-slope shape:* Linear*Parent material:* Sandy eolian deposits derived from sedimentary rock**Typical profile***A - 0 to 24 inches:* fine sand*Bt - 24 to 50 inches:* sandy clay loam*Bkm - 50 to 60 inches:* cemented material**Properties and qualities***Slope:* 0 to 3 percent*Depth to restrictive feature:* 40 to 60 inches to petrocalcic*Drainage class:* Well drained*Runoff class:* Very low*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)*Depth to water table:* More than 80 inches*Frequency of flooding:* None*Frequency of ponding:* None*Calcium carbonate, maximum content:* 5 percent*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)*Sodium adsorption ratio, maximum:* 2.0*Available water capacity:* Low (about 5.6 inches)**Interpretive groups***Land capability classification (irrigated):* 7e*Land capability classification (nonirrigated):* 7e*Hydrologic Soil Group:* B*Ecological site:* R042XC003NM - Loamy Sand*Hydric soil rating:* No



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**Description of Palomas****Setting**

*Landform:* Plains  
*Landform position (three-dimensional):* Rise  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Alluvium derived from sandstone

**Typical profile**

*A - 0 to 16 inches:* fine sand  
*Bt - 16 to 60 inches:* sandy clay loam  
*Bk - 60 to 66 inches:* sandy loam

**Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high  
(0.60 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 45 percent  
*Gypsum, maximum content:* 1 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 2.0  
*Available water capacity:* Moderate (about 7.5 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* B  
*Ecological site:* R042XC003NM - Loamy Sand  
*Hydric soil rating:* No

**Minor Components****Kermit**

*Percent of map unit:* 5 percent  
*Ecological site:* R042XC022NM - Sandhills  
*Hydric soil rating:* No

**Wink**

*Percent of map unit:* 5 percent  
*Ecological site:* R042XC003NM - Loamy Sand  
*Hydric soil rating:* No

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United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2\\_054242](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242)

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# NMSLO Seed Mix

# Sandy (S)

**SANDY (S) SITES SEED MIXTURE:**

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
<b>Grasses:</b>			
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
<b>Forbs:</b>			
Firewheel (Gaillardia)	VNS, Southern	1.0	D
Annual Sunflower	VNS, Southern	1.0	D
<b>Shrubs:</b>			
Fourwing Saltbush	VNS, Southern	1.0	F
		<b>Total PLS/acre</b>	<b>16.0</b>

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>.



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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 24889

**CONDITIONS**

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 24889
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
chensley	None	7/28/2021