SITE INFORMATION

Report Type: Closure Report NDHR1921234950

General Site Information:						
Site:	**Golden Spur/Wilder Federal Pipeline**					
Company:	**ConocoPhillips**					
Section, Township and Range	**Unit D**	**Sec. 29**	**T 26S**	**R 32E**		
Lease Number:	**Associated API No. N/A**					
County:	**Lea**					
GPS:	**32.02028**			**-103.70472**		
Surface Owner:	**Federal**					
Mineral Owner:	**N/A**					
Directions:	Depart from Jal (NM128/NM18). Head west on NM128 for 29.8 miles. Turn left onto Orla Rd. Head south for 14 miles. Arrive at location on the left.					

Release Data:		
Date Released:	7/2/2019	
Type Release:	Produced Water	
Source of Contamination:	Produced Water Line	
Fluid Released:	644 bbls	
Fluids Recovered:	110 bbls	

Official Communication:			
Name:	Marvin Soriwei		Christian M.Llull
Company:	Conoco Phillips - RMR		Tetra Tech
Address:	935 N. Eldridge Pkwy.		8911 N. Capital of TX Hwy
			Building 2, Suite 2310
City:	Houston, Texas 77079		Austin, TX 78759
Phone number:	(832) 486-2730		(512) 338-2861
Fax:			
Email:	Marvin.Soriwei@conocophillips.com		Christian.Llull@tetratech.com

Site Characterization	
Shallowest Depth to Groundwater:	*125' below surface*
Impact to groundwater or surface water:	*No*
Extents within 300 feet of a watercourse:	*No*
Extents within 200 feet of lakebed, sinkhole, or playa la	*No*
Extents within 300 feet of an occupied structure:	*No*
Extents within 500 horizontal feet of a private water wel	*No*
Extents within 1000 feet of any water well or spring:	*No*
Extents within incorporated municipal well field:	*No*
Extents within 300 feet of a wetland:	*No*
Extents overlying a subsurface mine:	*No*
Karst Potential:	*High*
Extents within a 100-year floodplain:	*No*
Impact to areas not on a production site:	*No*

Site Characterization	
Depth to Groundwater:	*251' below surface*
Karst Potential:	*High*

Recommended Remedial Action Levels (RRALs)			
Benzene	***Total BTEX***	***TPH (GRO+DRO+MRO)***	***Chlorides***
10 mg/kg	*50 mg/kg*	*100 mg/kg*	*600 mg/kg*

TETRA TECH

April 5, 2021

District Supervisor
Oil Conservation Division, District 1
1625 N. French Dr.
Hobbs, NM 88240

Re: Closure Report
ConocoPhillips
Golden Spur to Wilder Pipeline Release
Unit Letter D, Section 29, Township 26 South, Range 32 East
Lea County, New Mexico
1RP-5622
Incident ID: NDHR1921234950

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to assess a release that occurred from a check valve in a tinhorn cellar along the Golden Spur to Wilder Federal Pipeline. The release footprint is located in Unit Letter D, Section 29, Township 26 South, Range 32 East, Lea County, New Mexico (Site). The approximate release site coordinates are 32.020140°, -103.704774°. The Site location is shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), a release occurred from a tinhorn at the Golden Spur to Wilder Federal Pipeline on July 2, 2019 as a result of a check valve failure. Approximately 644 barrels (bbls) of produced water were reported released and approximately 110 bbls of produced water were recovered. Immediate notice was provided to the New Mexico Oil Conservation District (NMOCD) the day following the discovery of the release. The release notification was received by the NMOCD on July 19, 2019 and subsequently assigned the District Remediation Permit (RP) number 1RP-5622 and the Incident ID NDHR1921234950.

SITE CHARACTERIZATION

A site characterization was performed and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. However, the site is in a high karst potential area.

There are no water wells listed within ½ mile (800 meters) of the Site on the New Mexico Office of the State Engineer (NMOSE) database. The nearest well is 1,767 meters from the Site with groundwater documented at 295 feet below ground surface (bgs). As part of the site assessment activities, a soil boring (BH-1) was installed to a depth of 60 feet bgs to ensure a Site groundwater depth of greater than 50 feet bgs. Site characterization data is included in Appendix B.

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REGULATORY FRAMEWORK

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

Based upon the site characterization and the high karst potential, the RRALs for the site are as follows:

Constituent	RRAL
Chloride	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

SITE ASSESSMENT ACTIVITIES AND SAMPLING RESULTS

Tetra Tech personnel were onsite to delineate and sample the release area in October 2019. Four (4) borings (BH-1 through BH-4) were installed using an air rotary drilling rig to various depths to evaluate the vertical and horizontal extents of the release in the northern portion of the footprint. Three (3) additional borings (AH-1 through AH-3) were installed using a hand auger to a depth of 3 feet to evaluate the horizontal extents in the southern portion of the release footprint. A total of 34 soil samples were collected from these 7 boring locations on October 7, 2019 (Figure 3).

The results of the assessment activities are summarized in Table 1. The analytical results from sample locations BH-1 and BH-4 (inside the footprint) had chloride concentrations above the RRAL of 600 mg/kg from 0 – 55 feet below ground surface (bgs) and 0 – 5 feet bgs, respectively. The vertical extents of the release footprint were delineated as the analytical results associated with BH-1 (at 59-60 feet bgs) and BH-4 (at 6-7 feet bgs) were below the RRAL for chloride of 600 mg/kg. The analytical results associated with boring locations AH-1, AH-2, AH-3, BH-2 and BH-3 (borings for horizontal delineation) were below the RRAL for chloride. The analytical results associated with the remainder of samples collected from the Site were below the proposed RRALs for TPH and BTEX.

REMEDIATION WORK PLAN AND ALTERNATIVE CONFIRMATION SAMPLE PLAN

The Release Characterization Work Plan (Work Plan) was prepared by Tetra Tech on behalf of ConocoPhillips and submitted to NMOCD on August 24, 2020 with fee application payment PO Number 72WJI-200824-C-1410. The Work Plan described the results of the release assessment and provided characterization of the impact at the site. The Work Plan was approved via email by Cristina Eads on Thursday, October 22, 2020.

As described in the NMOCD-approved Remediation Work Plan and in accordance with 19.15.29.14(A) NMAC, ConocoPhillips requested a variance for the placement of a liner within the excavated area. This variance request states that a 20-mil reinforced poly liner will be installed and properly seated at the base of the excavation in areas with impacted soil remaining below 4 feet bgs.

REMEDIATION ACTIVITIES AND CONFIRMATION SAMPLING

From December 6, 2020 through January 5, 2021, Tetra Tech personnel were onsite to supervise the remediation activities proposed in the approved Work Plan, including excavation, disposal, and confirmation sampling. Impacted soils were excavated until a representative sample from the walls and bottom of the excavation had a field screening value inferred as lower than the RRALs for the Site. Once field screening was completed, confirmation floor and sidewall samples were collected for laboratory analysis to verify that

the impacted materials were properly removed. Each confirmation sample laboratory analytical result was directly compared to the proposed RRALs to demonstrate compliance.

Per the approved Alternative Confirmation Sampling Plan, confirmation samples were collected such that each discrete sample (sidewall and floor) were representative of no more than 500 square feet of excavated area. A total of thirty-nine (38) floor sample locations, thirty-five (35) sidewall sample locations and three (3) central sidewall samples were collected during the remedial activities. Confirmation sidewall sample locations were categorized with the cardinal direction (N, E, S, W) followed by SW-#. Central sidewall samples were categorized with a "C" followed by SW-#. Confirmation floor sample locations were labeled with "FS"-#. Selected areas required additional excavation to collect a representative sample that was below the respective RRALs for that location. As the analytical results associated with these sample locations exceeded the respective RRAL, additional excavation was conducted at those locations until field screening results indicated closure criteria were attained. Excavated areas, depths and confirmation sample locations are shown in Figure 4.

Collected confirmation samples were placed into laboratory-provided sample containers, transferred under chain-of-custody, and analyzed within appropriate holding times by Pace Analytical (Pace). The soil samples were analyzed for TPH (DRO and ORO) by EPA Method 8015, TPH Low Fraction (GRO) by EPA Method 8015D, BTEX by EPA Method 8021B, and chlorides by EPA Method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C.

Per the NMOCD approved Work Plan, the release extent was initially excavated to a maximum depth of 4 feet below existing grade. The area within 3 feet of the tinhorn/valve cellar, in the northern portion of the release footprint, was hand-dug to a depth of 4 feet bgs to remove impacted soil. In areas within the release footprint with analytical results from floor samples exceeding the remediation RRAL, a 20-mil reinforced poly liner was installed and properly seated throughout the base of the excavation at 4 feet bgs.

During the field screening of soils along the eastern sidewall, previously undiscovered impacted soil was noted outside the area proposed for remediation in the work plan (Figures 3 and 4). This additional release footprint lobe of impacted material was mapped out and found to extend east and south approximately 100 feet from the eastern sidewall. In general accordance with the approved Work Plan, the impacted soil within this area was excavated to a depth of 4 feet bgs. A 20-mil reinforced poly liner was also placed within this additional excavation, based on the analytical results from floor samples in this area.

Based on the field screening and confirmed by analytical results, the western portion of the release footprint was excavated to a depth of 2 feet bgs. Based on collected analytical results from floor samples in this area. impacted soil within the western portion of the excavation only extended to 2 feet bgs. Therefore, the placement of a liner was deemed unnecessary within this area as these subsurface soils met the remediation RRAL and reclamation requirements.

In the central portion of the footprint, analytical results associated with floor sample location FS-21 exceeded the remediation RRAL for chloride (600 mg/kg) at 2 feet bgs. This location was deepened and excavated to 4 feet below existing grade. An additional confirmation floor sample was collected at 4 feet bgs and was found to still be above the RRAL for chlorides, therefore this area was included in the lined portion of the excavation. After iterative confirmation sampling at this floor sample location, all final confirmation soil samples (floor and sidewall) collected above 4 feet bgs (unlined areas) were below the respective RRALs for chloride, BTEX, and TPH. The results of the December 2020 confirmation sampling events are summarized in Table 2.

All the excavated material was transported offsite for proper disposal. Approximately 3,528 cubic yards of material were transported to the R360 facility in Hobbs, New Mexico. Photographs from the excavated areas prior to and following backfill are provided in Appendix D. Once confirmation sampling activities were completed, associated analytical results were below the RRALs and/or a liner was installed at 4 feet bgs, and the excavated areas were backfilled with clean material to surface grade. The remediated areas contain soil backfill consisting of suitable material to establish vegetation at the site.

SITE REVEGETATION

As prescribed in the Work Plan, the backfilled areas were seeded to aid in revegetation. Based on the soils at the site and the approved Work Plan, the New Mexico State Land Office (NMSLO) Sandy Loam (SL) Sites Seed Mixture was used for seeding and was planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture was spread by cart-pulled seed drill equipped with a depth regulator.

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.

CONCLUSION

ConocoPhillips respectfully requests closure of this release based on the confirmation sampling results and remediation activities performed. The final C-141 forms are enclosed in Appendix A. If you have any questions concerning the remediation activities for the Site, please call me at (512) 338-2861 or Greg at (432) 682-4559.

If you have any questions or comments concerning the remediation activities conducted at this 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:
Mr. Marvin Soriwei, RMR – ConocoPhillips
Mr. Charles Beauvais, GPBU - ConocoPhillips
Mr. Jim Amos, BLM

LIST OF ATTACHMENTS

Figures:

- Figure 1 – Site Location/Overview Map
- Figure 2 – Site Location/Topographic Map
- Figure 3 – Release Assessment Map
- Figure 4 – Remediation Extent and Confirmation Sampling Locations

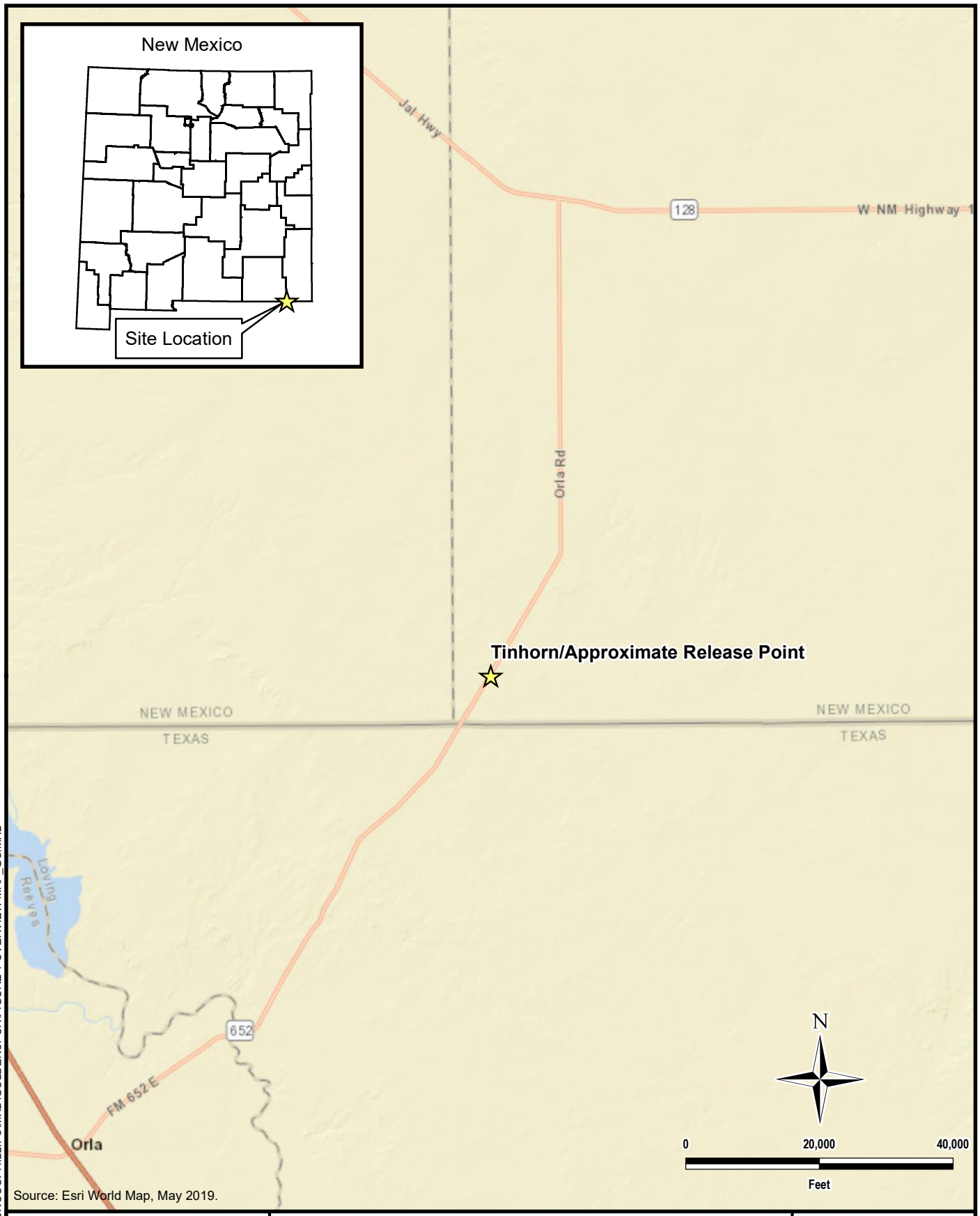
Tables:

- Table 1 – Summary of Analytical Results – Soil Assessment
- Table 2 – Summary of Analytical Results – Confirmation Sampling

Appendices:

- Appendix A – C-141 Forms
- Appendix B – Site Characterization Data
- Appendix C – Laboratory Analytical Data
- Appendix D – Photographic Documentation

FIGURES



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\GOLDENSPUR\FIGURE 1 OVERVIEW MAP_GS.MXD

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CONOCOPHILLIPS

(32.020149°, -103.704759°)
LEA COUNTY, NEW MEXICO

GOLDEN SPUR TO WILDER RELEASE
OVERVIEW MAP

PROJECT NO.:	212C-MD-01867
DATE:	FEBRUARY 24, 2021
DESIGNED BY:	AAM

Figure No.
1

\\TTS134FS1\SUP-GIS\ARCPRJ2\NERT\MXD\FIGURE1_TS_LOCATION.MXD

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CONOCOPHILLIPS

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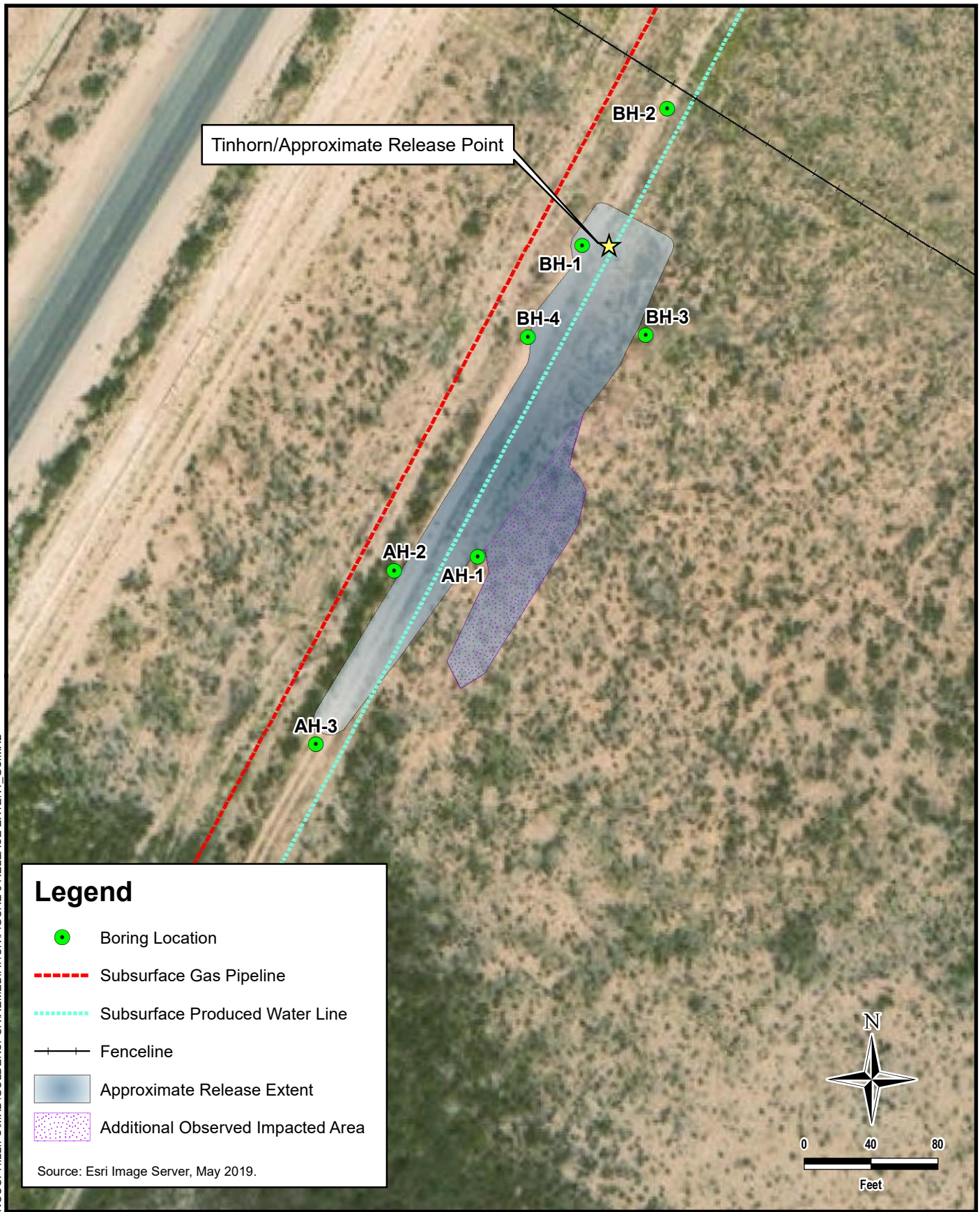
LEA COUNTY, NEW MEXICO

GOLDEN SPUR TO WILDER RELEASE
TOPOGRAPHIC MAP

PROJECT NO.:	212C-MD-01867
DATE:	JUNE 22, 2020
DESIGNED BY:	AAM

Figure No.
2



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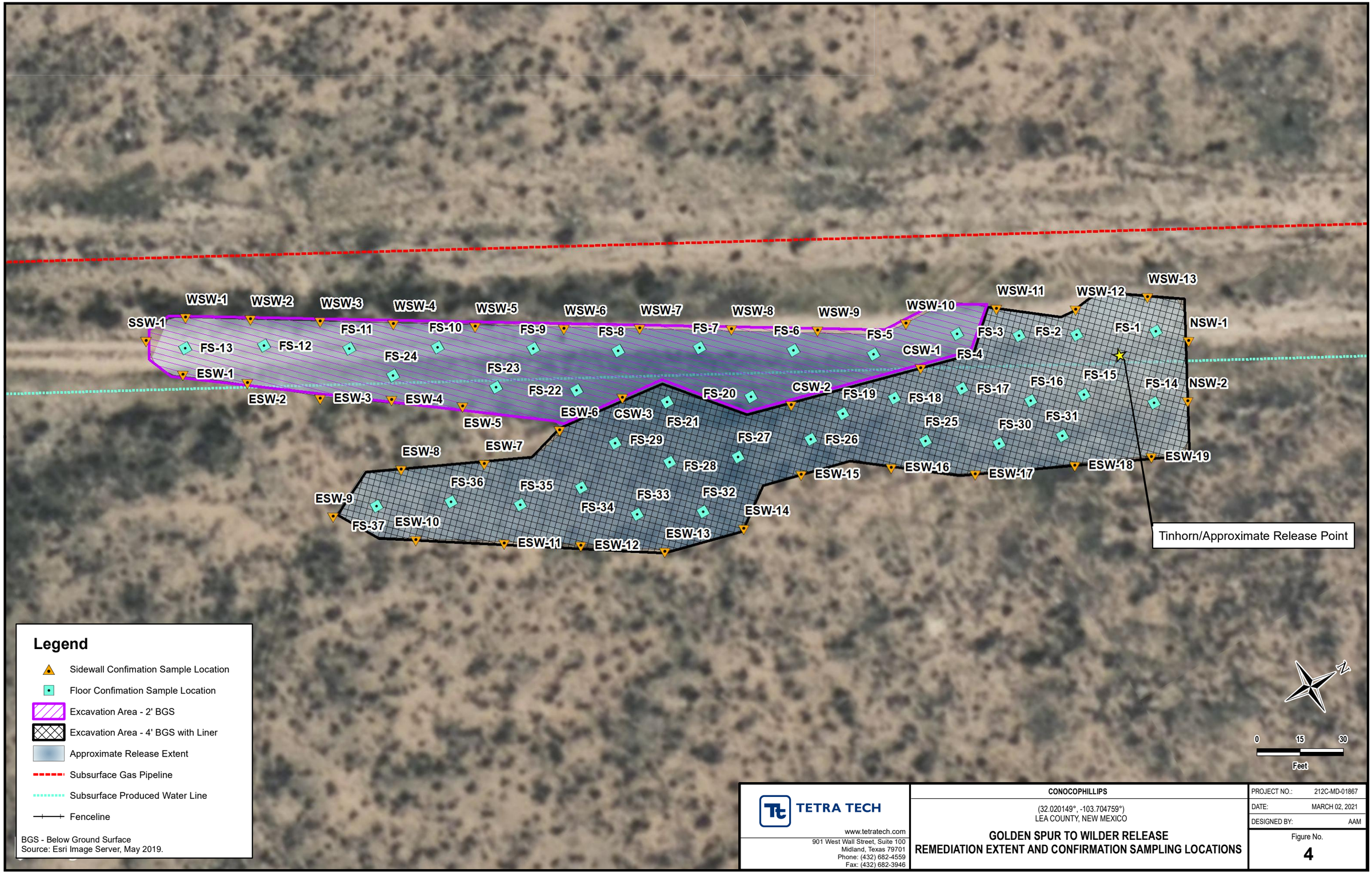
CONOCOPHILLIPS

1RP-5622/NDHR1921234950
(32.020149°, -103.704759°)
LEA COUNTY, NEW MEXICO

GOLDEN SPUR TO WILDER PIPELINE
RELEASE ASSESSMENT MAP

PROJECT NO.:	212C-MD-01867
DATE:	MARCH 09, 2021
DESIGNED BY:	AAM

Figure No.
3



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\GOLDENSPUR\REMEDIATION\FIGURE 4 REMEDIATION EXTENT_GS.MXD

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CONOCOPHILLIPS

(32.020149°, -103.704759°)
LEA COUNTY, NEW MEXICO

GOLDEN SPUR TO WILDER RELEASE
REMEDIATION EXTENT AND CONFIRMATION SAMPLING LOCATIONS

PROJECT NO.:	212C-MD-01867
DATE:	MARCH 02, 2021
DESIGNED BY:	AAM

Figure No.
4

TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT
GOLDEN SPUR TO WILDER RELEASE
1RP-5622
LEA COUNTY, NM

Sample ID	Sample Date	Sample Interval	Field Screening Results		Chloride[1]		BTEX[2]										TPH[3]							
							Benzene		Toluene		Ethylbenzene		Xylene		Total BTEX		GRO (C_3 - C_{10})[4]		DRO (C_{10} - C_{28})		ORO (C_{28} - C_{40})		TPH (C_3 - C_{40})	
		ft bgs	Chloride	PID																				
			ppm		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
AH-1	10/07/19	0-1	146	1.2	23.4		< 0.00103		< 0.00514		< 0.00257		< 0.00669		-		0.0827	B J	< 4.12		2.62	J	2.7027	
		2-3	NM	0.9	11.7	B	< 0.00103		< 0.00514		< 0.00257		< 0.00668		-		0.0848	B J	< 4.11		2.83	J	2.9148	
AH-2	10/07/19	0-1	112	1.1	64.2		< 0.00105		< 0.00523		< 0.00262		< 0.00680		-		0.0947	B J	< 4.19		1.34	J	1.4347	
		2-3	NM	1.0	71.5		< 0.00103		< 0.00517		< 0.00258		< 0.00672		-		0.0779	B J	< 4.13		1.97	J	2.0479	
AH-3	10/07/19	0-1	98	1.1	56.1		< 0.00103		< 0.00517		< 0.00258		< 0.00672		-		0.0815	B J	1.72	J	2.99	J	4.7915	
		2-3	NM	0.8	74.8		< 0.00103		< 0.00515		< 0.00258		< 0.00670		-		0.0773	B J	< 4.12		0.917	J	0.9943	
BH-1	10/07/19	0-1	NM	10	***1550***		< 0.00108	T8	< 0.00538	T8	< 0.00269	T8	< 0.00700	T8	-		0.0300	J T8	2.48	J T8	5.19	T8	7.70	
		2-3	*3690*	2.1	***5090***		< 0.00108	T8	< 0.00542	T8	< 0.00271	T8	< 0.00704	T8	-		< 0.108	T8	9.35	T8	16.6	T8	25.95	
		4-5	*3300*	1.1	***4310***		< 0.00111	T8	< 0.00557	T8	< 0.00278	T8	< 0.00724	T8	-		0.0331	J T8	< 4.45	T8	0.537	J T8	0.5701	
		6-7	NM	1.2	--		--		--		--		--		-		--		--		--		-	
		9-10	*2340*	1.1	--		--		--		--		--		-		--		--		--		-	
		14-15	NM	0.8	--		--		--		--		--		-		--		--		--		-	
		19-20	*3010*	0.9	--		--		--		--		--		-		--		--		--		-	
		24-25	*2400*	0.9	--		--		--		--		--		-		--		--		--		-	
		29-30	*1970*	NM	--		--		--		--		--		-		--		--		--		-	
		34-35	NM	NM	--		--		--		--		--		-		--		--		--		-	
		39-40	*2640*	NM	***3150***		< 0.00106		0.00153	J	< 0.00264		< 0.00687		-		< 0.106		< 4.23		< 4.23		-	
		44-45	NM	NM	***3060***		< 0.00106		< 0.00531		< 0.00265		< 0.00690		-		0.0968	B J	< 4.25		0.515	J	0.6118	
		49-50	*1990*	NM	***2370***		< 0.00105		< 0.00526		< 0.00263		< 0.00684		-		0.0975	B J	< 4.21		0.432	J	0.5295	
		54-55	*3110*	NM	***4320***		< 0.00114		< 0.00568		< 0.00284		< 0.00739		-		0.0993	B J	1.99	J	0.631	J	2.7203	
		59-60	419	NM	355		< 0.00102		< 0.00509		< 0.00255		< 0.00662		-		0.0845	B J	< 4.08		0.319	J	0.4035	
BH-2	10/07/19	0-1	136	1.4	65.6		< 0.00102		< 0.00512		< 0.00256		< 0.00665		-		0.0912	B J	< 4.09		1.71	J	1.8012	
		2-3	159	1.1	56.6		< 0.00102		< 0.00512		< 0.00256		< 0.00666		-		0.0795	B J	1.67	J	0.646	J	2.3955	
		4-5	216	0.9	56.3		< 0.00104		< 0.00522		< 0.00261		< 0.00679		-		0.0879	B J	< 4.18		1.08	J	1.1679	
BH-3	10/07/19	0-1	NM	2.1	9.33	B J	< 0.00102		< 0.00511		< 0.00256		< 0.00665		-		0.0836	B J	2.85	J	5.04		7.9736	
		2-3	61.7	0.8	24.8		< 0.00103		< 0.00513		< 0.00257		< 0.00667		-		0.0821	B J	< 4.11		3.40	J	3.4821	
		4-5	100	0.9	--		--		--		--		--		-		--		--		--		-	
BH-4	10/07/19	0-1	NM	4.4	***1460***		< 0.00108	T8	< 0.00542	T8	< 0.00271	T8	< 0.00704	T8	-		< 0.108	T8	2.95	J T8	5.21	T8	8.16	
		2-3	*3380*	3.2	***3450***		< 0.00109	T8	< 0.00547	T8	< 0.00274	T8	< 0.00712	T8	-		0.0239	J T8	3.24	J T8	3.27	J T8	6.5339	
		4-5	*2270*	1.6	***2490***		< 0.00112	T8	< 0.00560	T8	< 0.00280	T8	< 0.00727	T8	-		< 0.112	T8	< 4.48	T8	1.80	J T8	1.80	
		6-7	*768*	1.1	24.6		< 0.00103		< 0.00513		< 0.00256		< 0.00666		-		0.0768	B J	< 4.10		3.32	J	3.3968	
		9-10	*941*	1.2	183		< 0.00108		< 0.00539		< 0.00269		< 0.00700		-		0.0779	B J	1.90	J	1.48	J	3.4579	
		14-15	*894*	0.8	19.8	B	< 0.00110		< 0.00548		< 0.00274		< 0.00712		-		0.0706	B J	< 4.38		0.963	J	1.0336	
		19-20	336	0.9	66.5		< 0.00102		< 0.00509		< 0.00255		< 0.00662		-		0.0681	B J	5.24		8.08		13.3881	

NOTES:

ft	Feet	***Bold and italicized values indicate exceedance of proposed RRALs.***	
bgs	Below ground surface	1	Method 300.0
ppm	Parts per million	2	Method 8260B
mg/kg	Milligrams per kilogram	3	Method 8015
NM	Not measured	4	Method 8015D/GRO
--	Not analyzed	B	The same analyte is found in the associated blank.
TPH	Total Petroleum Hydrocarbons	J	The identification of the analyte is acceptable; the reported value is an estimate.
GRO	Gasoline range organics	T8	Sample(s) received past/too close to --ing time expiration.

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
CONFIRMATION SAMPLING - 1RP-5622/DHR1921234950
CONOCOPHILLIPS
GOLDEN SPUR TO WILDER RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride[1]		BTEX[2]										TPH[3]							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO[4] C_3 - C_{10}		DRO C_{10} - C_{28}		ORO C_{28} - C_{40}		Total TPH (GRO+DRO+ORO)	
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
FS-1	12/18/2020	4	2090		< 0.00115		< 0.00576		< 0.00288		< 0.00749		-		< 0.109		2.49	J	4.10	J	6.59	
FS-2	12/18/2020	4	2480		< 0.00117		< 0.00585		< 0.00293		< 0.00761		-		< 0.109		< 4.34		1.61	J	1.61	
FS-3	12/18/2020	4	2790		< 0.00117		< 0.00587		< 0.00293		< 0.00762		-		< 0.109		2.10	J	3.29	J	5.39	
FS-4	12/11/2020	2	202		0.000510	J	< 0.00536		0.000858	J	0.00177	J	0.00314		< 0.104		3.78	J	10.6		14.4	
FS-5	12/11/2020	2	72.4		< 0.00114		< 0.00570		< 0.00285		0.00105	J	0.00105		0.0713	B J	< 4.25		6.90		6.97	
FS-6	12/11/2020	2	348		< 0.00110		< 0.00550		< 0.00275		< 0.00714		-		0.0694	B J	< 4.20		5.49		5.56	
FS-7	12/11/2020	2	62.3		< 0.00106		< 0.00529		< 0.00265		< 0.00688		-		0.0790	B J	4.36		11.3		15.7	
FS-8	12/8/2020	2	25.8		< 0.00107		< 0.00535		< 0.00268		< 0.00696		-		< 0.104		< 4.14		8.47		8.47	
FS-9	12/8/2020	2	< 20.7		< 0.00107		< 0.00536		< 0.00268		< 0.00697		-		< 0.104		1.94	J	7.41	B	9.35	
FS-10	12/11/2020	2	20.7		< 0.00107		< 0.00533		< 0.00267		< 0.00693		-		0.0900	B J	1.76	J	8.74		10.6	
FS-11	12/8/2020	2	< 20.7		< 0.00107		< 0.00533		< 0.00267		< 0.00693		-		< 0.103		< 4.13		7.90	B	7.90	
FS-12	12/7/2020	2	< 20.5		< 0.00105		< 0.00524		< 0.00262		< 0.00681		-		1.27	B J	1.76	J	7.07		10.1	
FS-13	12/7/2020	2	< 20.5		< 0.00105		< 0.00526		< 0.00263		< 0.00684		-		0.982	B J	2.02	J	8.20		11.2	
FS-14	12/18/2020	4	4920		< 0.00123		< 0.00613		< 0.00306		< 0.00796		-		< 0.111		2.41	J	1.99	J	4.40	
FS-15	12/18/2020	4	5510		< 0.00123		< 0.00617		< 0.00308		< 0.00801		-		< 0.112		2.69	J	1.43	J	4.12	
FS-16	12/18/2020	4	5230		< 0.00126		< 0.00628		< 0.00314		< 0.00817		-		< 0.113		2.03	J	0.995	J	3.03	
FS-17	12/18/2020	4	4160		< 0.00121	J3	< 0.00606	J3	< 0.00303	J3	< 0.00788		-		< 0.112		2.26	J	2.69	J	4.95	
FS-18	12/18/2020	4	2840		< 0.00113		< 0.00566		< 0.00283		< 0.00736		-		0.0406	J	4.56		9.44		14.0	
FS-19	12/11/2020	4	4970		< 0.00121		< 0.00607		< 0.00304		< 0.00789		-		0.0519	B J	2.04	J	5.38		7.47	
FS-20	12/11/2020	2	15.6	J	< 0.00107		< 0.00534		< 0.00267		< 0.00694		-		0.0786	B J	< 4.14		5.99		6.07	
FS-21	12/11/2020	2	3450		< 0.00116		< 0.00581		< 0.00290		< 0.00755		-		0.0540	B J	4.39		17.0		21.4	
	12/18/2020	4	1920		< 0.00156		< 0.00779		< 0.00390		< 0.0101		-		< 3.90		< 4.35		0.624	J	0.624	
FS-22	12/8/2020	2	< 20.7		< 0.00107		< 0.00533		< 0.00267		< 0.00693		-		< 0.103		< 4.13		7.19	B	7.19	
FS-23	12/8/2020	2	< 20.7		< 0.00107		< 0.00535		< 0.00267		< 0.00695		-		< 0.103		< 4.14		5.44	B	5.44	
FS-24	12/8/2020	2	< 20.7		< 0.00107		< 0.00534		< 0.00267		< 0.00695		-		< 0.103		< 4.14		9.11	B	9.11	
FS-25	12/18/2020	4	5500	V	< 0.00117		< 0.00586		< 0.00293		< 0.00762		-		< 0.109		< 4.34		2.47	J	2.47	
FS-26	12/18/2020	4	2410	J3	< 0.00111		< 0.00553		< 0.00276		< 0.00719		-		< 0.106		4.67		10.0		14.7	
FS-27	12/18/2020	4	4130		< 0.00121		< 0.00605		< 0.00302		< 0.00786		-		< 0.110		2.76	J	3.50	J	6.26	
FS-28	12/18/2020	4	5320		< 0.00122		< 0.00609		< 0.00305		< 0.00792		-		< 0.111		2.32	J	2.77	J	5.09	
FS-29	12/18/2020	4	3630		< 0.00115		< 0.00575		< 0.00288		< 0.00748		-		< 0.109		2.84	J	1.94	J	4.78	
FS-30	12/18/2020	4	3310		< 0.00112		< 0.00560		< 0.00280		< 0.00728		-		< 0.106		2.57	J	5.49		8.06	
FS-31	12/18/2020	4	3930		< 0.00119		< 0.00594		< 0.00297		< 0.00773		-		< 0.109		< 4.38		1.41	J	1.41	
FS-32	12/18/2020	4	2930		< 0.00115		< 0.00577		< 0.00289		< 0.00750		-		0.0290	J	< 4.31		3.22	J	3.25	
FS-33	12/18/2020	4	5190		< 0.00120		< 0.00602		< 0.00301		< 0.00783		-		0.0240	J	< 4.41		2.30	J	2.32	
FS-34	12/18/2020	4	2440		< 0.00116		< 0.00578		< 0.00289		< 0.00751		-		< 0.108		< 4.31		4.41		4.41	
FS-35	12/11/2020	4	4530		0.000620	J	< 0.00591		< 0.00295		< 0.00768		0.000620		0.0647	B J	< 4.36		4.86		4.92	
FS-36	12/11/2020	4	6190		< 0.00124		< 0.00622		< 0.00311		< 0.00809		-		0.0507	B J	2.61	J	5.61		8.27	
FS-37	12/11/2020	4	2550		< 0.00116		< 0.00582		< 0.00291		< 0.00757		-		0.0502	B J	< 4.33		3.00	J	3.05	
CSW-1	12/18/2020	-	36.8		< 0.00103		< 0.00513		< 0.00256		< 0.00667		-		< 0.101		1.85	J	5.67		7.52	
CSW-2	12/18/2020	-	32.3		< 0.00103		< 0.00513		< 0.00256		< 0.00667		-		< 0.101		1.77	J	7.33		9.10	
CSW-3	12/18/2020	-	40.5		< 0.00103		< 0.00515		< 0.00257		< 0.00669		-		< 2.57		< 4.06		4.66		4.66	
NSW-1	12/7/2020	-	< 20.7		< 0.00121		< 0.00607		< 0.00303		< 0.00789		-		1.58	B J	1.72	J	5.47		8.77	
NSW-2	12/7/2020	-	< 20.2		< 0.00182		< 0.00909		< 0.00455		< 0.0118		-		2.44	B J	3.54	J	9.84		15.8	

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
CONFIRMATION SAMPLING - 1RP-5622/DHR1921234950
CONOCOPHILLIPS
GOLDEN SPUR TO WILDER RELEASE

Sample ID	Sample Date	Sample Depth	Chloride[1]		BTEX[2]										TPH[3]							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO[4] C_3 - C_{10}		DRO C_{10} - C_{28}		ORO C_{28} - C_{40}		Total TPH (GRO+DRO+ORO)	
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
ESW-1	12/7/2020	-	< 20.2		< 0.00114		< 0.00571		< 0.00285		< 0.00742		-		0.735	J	2.69	J	11.9		15.3	
ESW-2	12/7/2020	-	< 20.5		< 0.00111		< 0.00553		< 0.00277		< 0.00719		-		< 2.77		< 4.11		15.1		15.1	
ESW-3	12/7/2020	-	< 20.2		< 0.00104		< 0.00521		< 0.00261		< 0.00678		-		< 2.61		1.92	J	10.4		12.3	
ESW-4	12/7/2020	-	< 20.7		< 0.00118		< 0.00590		< 0.00295		< 0.00767		-		< 2.95		< 4.13		9.34		9.34	
ESW-5	12/7/2020	-	26.6		< 0.00110		< 0.00552		< 0.00276		< 0.00717		-		< 2.76		2.41	J	11.5		13.9	
ESW-6	12/7/2020	-	22.4		< 0.00104		< 0.00522		< 0.00261		< 0.00678		-		< 2.61		< 4.09		10.8		10.8	
ESW-7	12/7/2020	-	< 20.2		< 0.00117		< 0.00587		< 0.00294		< 0.00764		-		1.57	J	5.28		13.8		20.7	
ESW-8	12/7/2020	-	66.2		< 0.00113		< 0.00567		< 0.00284		< 0.00737		-		< 2.84		2.19	J	9.54		11.7	
ESW-9	12/7/2020	-	< 20.2		< 0.00102		< 0.00510		< 0.00255		< 0.00663		-		< 2.55		3.05	J	6.87		9.92	
ESW-10	12/7/2020	-	17.8		< 0.00127		< 0.00637		< 0.00318		< 0.00827		-		< 3.18		2.42	J	12.1		14.5	
ESW-11	12/7/2020	-	37.6		< 0.00117		< 0.00583		< 0.00292		< 0.00758		-		< 2.92		2.54	J	7.79		10.3	
ESW-12	12/7/2020	-	< 20.6		< 0.00109		< 0.00547		< 0.00274		< 0.00712		-		< 2.74		2.14	J	12.2		14.3	
ESW-13	12/7/2020	-	199		< 0.00123		< 0.00613		< 0.00306		< 0.00796		-		< 3.06		3.47	J	13.4		16.9	
ESW-14	12/7/2020	-	< 20.2		< 0.00106		< 0.00530		< 0.00265		< 0.00689		-		< 2.65		3.74	J	10.4		14.1	
ESW-15	12/7/2020	-	13.5	J	< 0.00107		< 0.00536		< 0.00268		< 0.00697		-		< 2.68		2.78	J	13.9		16.7	
ESW-16	12/7/2020	-	< 20.6		< 0.00125		< 0.00625		< 0.00312		< 0.00812		-		< 3.12		2.15	J	9.22		11.4	
ESW-17	12/7/2020	-	< 20.5		< 0.00126		< 0.00630		< 0.00315		< 0.00818		-		< 3.15		5.19		10.3		15.5	
ESW-18	12/7/2020	-	55.5		< 0.00108		< 0.00541		< 0.00271		< 0.00704		-		1.68	B J	3.10	J	14.1		17.2	
ESW-19	12/7/2020	-	41.6		< 0.00109		< 0.00545		< 0.00273		< 0.00709		-		1.51	B J	2.73	J	11.5		14.2	
SSW-1	12/7/2020	-	< 20.6		< 0.00115		< 0.00573		< 0.00286		< 0.00744		-		1.43	B J	< 4.13		6.02		7.45	
WSW-1	12/7/2020	-	< 20.7		< 0.00111		< 0.00555		< 0.00277		< 0.00721		-		1.63	B J	3.23	J	10.8		15.7	
WSW-2	12/7/2020	-	< 20.6		< 0.00120		< 0.00598		< 0.00300		< 0.00779		-		1.47	B J	< 4.13		5.50		6.97	
WSW-3	12/7/2020	-	< 20.6		< 0.00120		< 0.00598		< 0.00300		< 0.00778		-		1.37	B J	< 4.12		5.51		6.88	
WSW-4	12/7/2020	-	< 20.6		< 0.00110		< 0.00550		< 0.00275		< 0.00715		-		1.20	B J	< 4.12		5.88		7.08	
WSW-5	12/7/2020	-	< 20.6		< 0.00106		< 0.00530		< 0.00265		< 0.00689		-		1.50	B J	< 4.12		7.04		8.54	
WSW-6	12/7/2020	-	< 20.5		< 0.00105		< 0.00526		< 0.00263		< 0.00683		-		1.15	B J	1.85	J	8.02		11.0	
WSW-7	12/7/2020	-	11.6	J	< 0.00120		< 0.00598		< 0.00299		< 0.00777		-		1.93	B J	< 4.10		5.83		7.76	
WSW-8	12/7/2020	-	39.4		< 0.00120		< 0.00600		< 0.00300		< 0.00780		-		1.47	B J	< 4.27		5.67		7.14	
WSW-9	12/7/2020	-	< 20.2		< 0.00104		< 0.00520		< 0.00260		< 0.00675		-		1.23	B J	2.06	J	9.24		12.5	
WSW-10	12/7/2020	-	< 20.6		< 0.00106		< 0.00529		< 0.00264		< 0.00687		-		1.11	B J	1.75	J	9.76		12.6	
WSW-11	12/7/2020	-	33.5		< 0.00114		< 0.00570		< 0.00285		< 0.00741		-		< 2.85		3.40	J	11.9		15.3	
WSW-12	12/7/2020	-	25.4		< 0.00111		< 0.00557		< 0.00279		< 0.00724		-		< 2.79		3.15	J	15.6		18.8	
WSW-13	12/7/2020	-	< 20.5		< 0.00105		< 0.00527		< 0.00263		< 0.00685		-		< 2.63		1.86	J	9.61		11.5	

NOTES:

ft. Feet
bgs Below ground surface
ppm Parts per million
mg/kg Milligrams per kilogram
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics
ORO Oil range organics

Bold and italicized values indicate exceedance of proposed RRALs

Gold highlight represents soil horizons that were removed during deepening of excavation floors.

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

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 the established quality control range for precision.
V The sample concentration is too high to evaluate accurate spike recoveries.

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	NDHR1921234950
District RP	1RP-5622
Facility ID	fDHR1921234800
Application ID	pDHR1921234384

Release Notification

Responsible Party

Responsible Party ConocoPhillips	OGRID 217817
Contact Name Charles Beauvais	Contact Telephone 1-575-745-1959
Contact email charles.r.beauvais@conocophillips.com	Incident # *(assigned by OCD)*
Contact mailing address 15 West London Rd, Loving, NM 88256	

Location of Release Source

Latitude 32.02028° or 32°1'13"N Longitude -103.70472° or 103°42'17"W
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Golden Spur/Wilder Federal Pipeline	Site Type Produced water pipeline
Date Release Discovered 7/2/19	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
D	29	26S	32E	LEA

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* BLM)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 644	Volume Recovered (bbls) 110
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release – Fatigue failure of check valve

-141 State of New Mexico
2 Oil Conservation Division

Incident ID	NDHR1921234950
District RP	1RP-5622
Facility ID	fDHR1921234800
Application ID	pDHR1921234384

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? 19.15.29.7(A)(1) An unauthorized release of a volume, excluding gases, of 25 barrels or more

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Notice was made by Charles Beauvais, Environmental Coordinator, at 12:43 P.M. on 7/3/19 via email to bradford.billings@state.nm and dylan h.rose-cross@state.nm.us. Calls were made to Jim Griswald & NMOCD, however, voicemails were received multiple times.

Initial Response

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

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

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

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

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

Printed Name: Charles Beauvais Title: Environmental Coordinator

Signature: Charles R. Beauvais II Date: 07/03/19

email: charles.r.beauvais@conocophillips.com Telephone: 1-575-745-1959

OCD Only

Received by: Dylan Rose-Coss Date: 07/31/2019

Incident ID	NDHR1921234950
District RP	1RP-5622
Facility ID	fDHR1921234800
Application ID	pDHR1921234384

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NDHR1921234950
District RP	1RP-5622
Facility ID	fDHR1921234800
Application ID	pDHR1921234384

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: Marvin Soriwei Title: Program Manager, Risk Management & Remediation.

Signature: Date: 7/6/2020

email: marvin.soriwei@conocophillips.com Telephone: 823-486-2730

OCD Only

Received by: Cristina Eads Date: 08/24/2020

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	NDHR1921234950
District RP	1RP-5622
Facility ID	fDHR1921234800
Application ID	pDHR1921234384

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.***

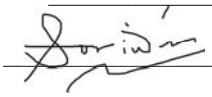
☑ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☑ 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: Marvin Soriwei Title: Program Manager, Risk Management & Remediation.

Signature:  Date: 7/6/2020

email: marvin.soriwei@conocophillips.com Telephone: 832-486-2730

OCD Only

Received by: Cristina Eads Date: 08/24/2020

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

Signature:  Date: 10/22/2020

State of New Mexico
Oil Conservation Division

Incident ID	NDHR1921234950
District RP	1RP-5622
Facility ID	fDHR1921234800
Application ID	pDHR1921234384

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Marvin Soriwei Title: Program Manager, Risk Management & Remediation

Signature: Date: 4/1/2021

email: marvin.soriwei@conocophillips.com Telephone: 8324862730

OCD Only

Received by: Cristina Eads Date: 04/05/2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

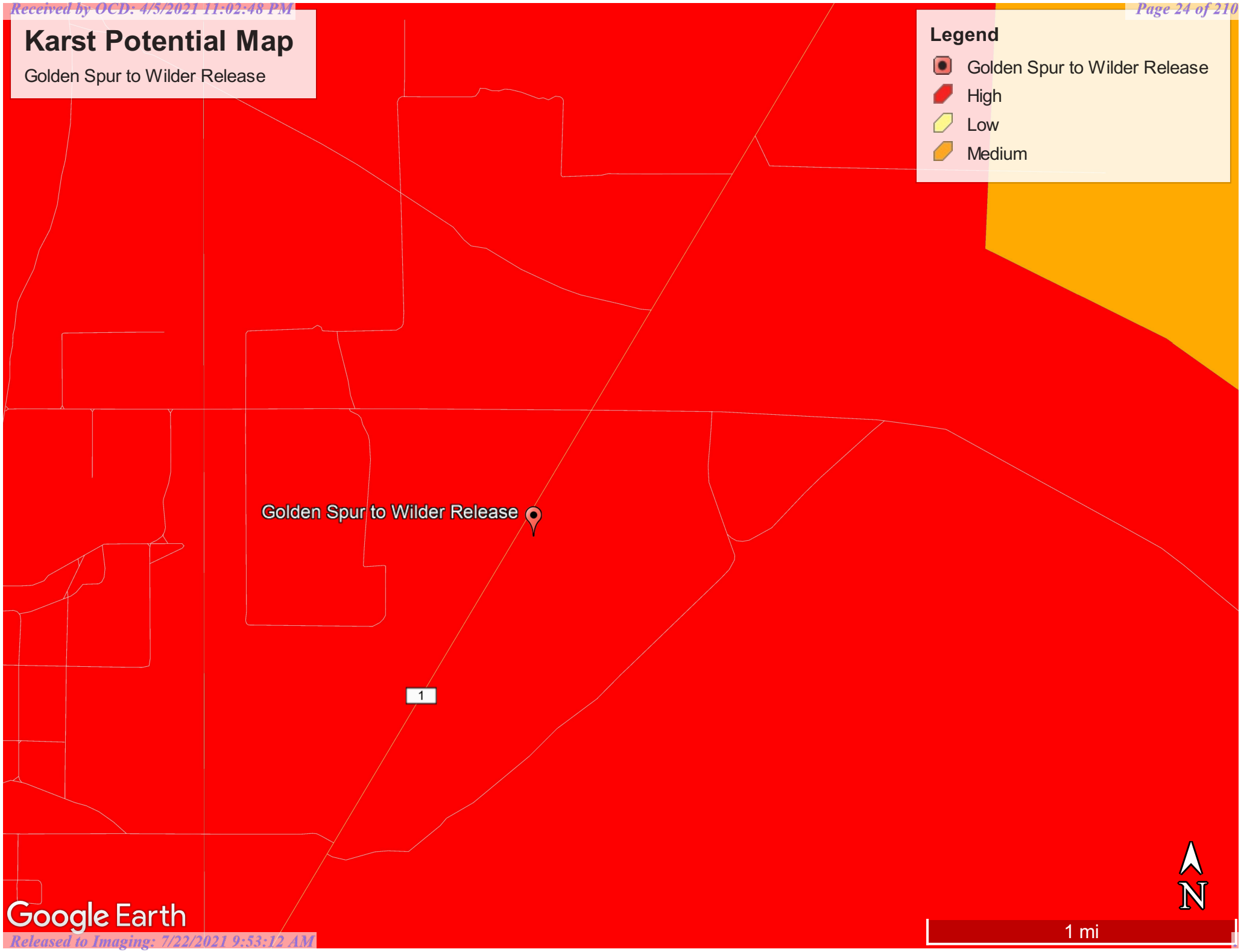
Closure Approved by: Date: 07/22/2021

Printed Name: Cristina Eads Title: Environmental Specialist

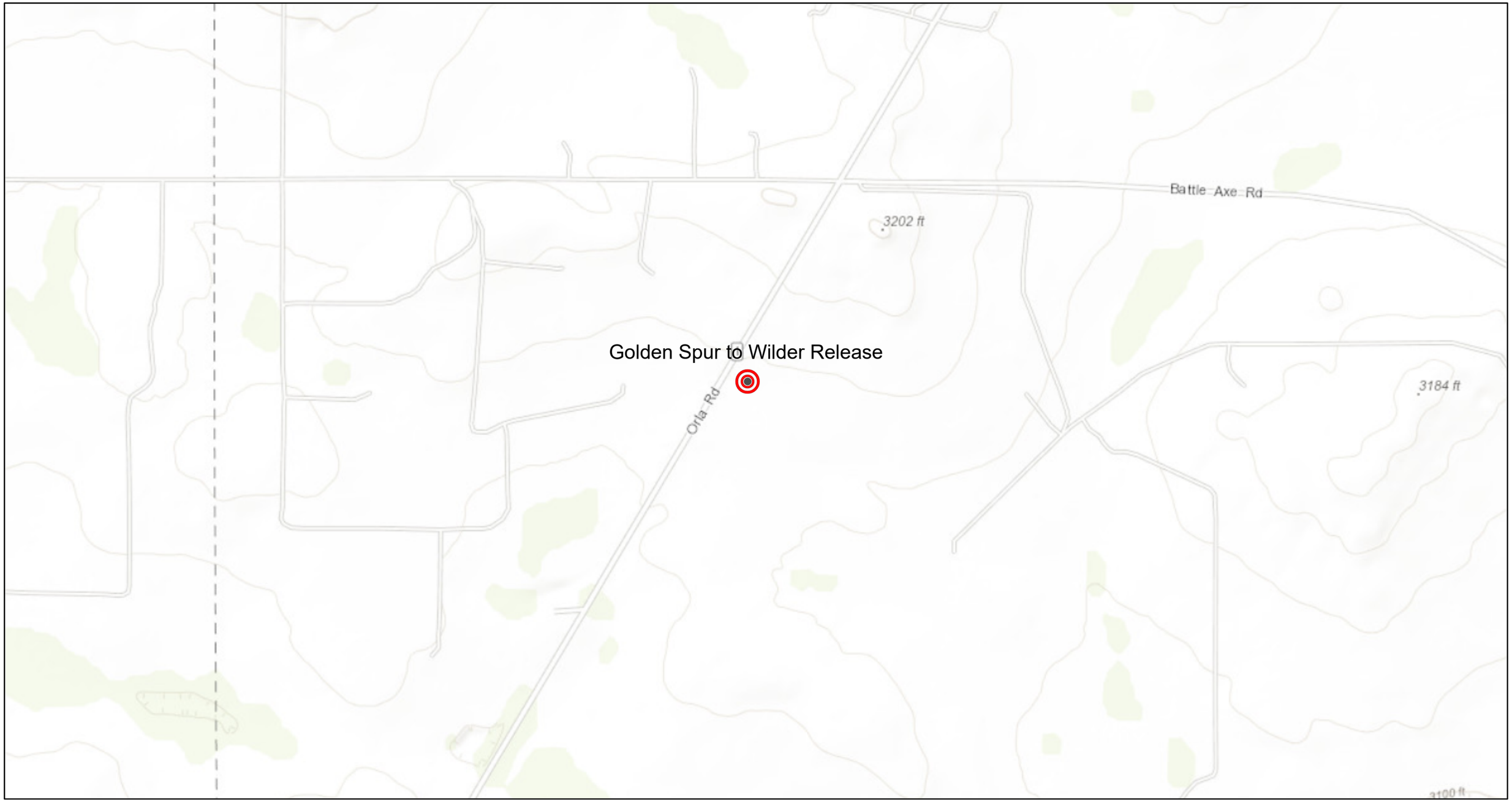
APPENDIX B
Site Characterization Data

Karst Potential Map

Golden Spur to Wilder Release



Golden Spur to Wilder Release NMOCD Map



11/15/2019 3:29:48 PM

Override 1

New Mexico Counties

New Mexico Towns

NMDOT GPS ROADS

NMDOT Railroads

OSE Water-bodies

PLJV Probable Playas

OSE Streams

1:14,308

0 0.15 0.3 0.6 mi

0 0.23 0.45 0.9 km

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

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/: New Mexico Oil Conservation Division

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

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

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

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

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02274	CUB	LE	2	1	2	31	26S	32E	621742	3541730*	1767	300	295	5

Average Depth to Water: **295 feet**

Minimum Depth: **295 feet**

Maximum Depth: **295 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 622318.86 **Northing (Y):** 3543401.2 **Radius:** 1800

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

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

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 622319 **Northing (Y):** 3543409 **Radius:** 1600

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

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

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

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

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02274		CUB	LE	2	1	2	31	26S	32E	621742	3541730*	1775	300	295	5
C 03537 POD1		CUB	LE	3	2	3	21	26S	32E	624250	3543985	2015	850		
C 02271 POD2		CUB	LE	3	2	3	21	26S	32E	624348	3544010*	2116	270	250	20
C 02323		C	LE	3	2	3	21	26S	32E	624348	3544010*	2116	405	405	0
C 03595 POD1		CUB	LE	4	2	3	21	26S	32E	624423	3544045	2197	280	180	100
C 02271	R	CUB	LE		2	3	21	26S	32E	624449	3544111*	2242	150	125	25

Average Depth to Water: **251 feet**
Minimum Depth: **125 feet**
Maximum Depth: **405 feet**

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 622319 **Northing (Y):** 3543409 **Radius:** 2400

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

APPENDIX C
Laboratory Analytical Data

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

December 11, 2020

ConocoPhillips - Tetra Tech

Sample Delivery Group:	L1294257
Samples Received:	12/09/2020
Project Number:	212C-MD-01867
Description:	COP Golden Spur Wilder Release

Report To: Christian Llull
901 West Wall
Suite 100
Midland, TX 79701

Entire Report Reviewed By:

Chris McCord
Project Manager

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

TABLE OF CONTENTS

Cp: Cover Page 1
Tc: Table of Contents 2
Ss: Sample Summary 4
Cn: Case Narrative 12
Sr: Sample Results 13
SSW-1 L1294257-01 13
WSW-1 L1294257-02 14
WSW-2 L1294257-03 15
WSW-3 L1294257-04 16
WSW-4 L1294257-05 17
WSW-5 L1294257-06 18
WSW-6 L1294257-07 19
WSW-7 L1294257-08 20
WSW-8 L1294257-09 21
WSW-9 L1294257-10 22
WSW-10 L1294257-11 23
WSW-11 L1294257-12 24
WSW-12 L1294257-13 25
WSW-13 L1294257-14 26
ESW-1 L1294257-15 27
ESW-2 L1294257-16 28
ESW-3 L1294257-17 29
ESW-4 L1294257-18 30
ESW-5 L1294257-19 31
ESW-6 L1294257-20 32
ESW-7 L1294257-21 33
ESW-8 L1294257-22 34
ESW-9 L1294257-23 35
ESW-10 L1294257-24 36
ESW-11 L1294257-25 37
ESW-12 L1294257-26 38
ESW-13 L1294257-27 39
ESW-14 L1294257-28 40
ESW-15 L1294257-29 41
ESW-16 L1294257-30 42
ESW-17 L1294257-31 43
ESW-18 L1294257-32 44
ESW-19 L1294257-33 45
NSW-1 L1294257-34 46
NSW-2 L1294257-35 47

FS-12 (2') L1294257-36 48
FS-13 (2') L1294257-37 49
Qc: Quality Control Summary 50
Total Solids by Method 2540 G-2011 50
Wet Chemistry by Method 300.0 55
Volatile Organic Compounds (GC) by Method 8015D/GRO 57
Volatile Organic Compounds (GC/MS) by Method 8260B 60
Semi-Volatile Organic Compounds (GC) by Method 8015 63
Gl: Glossary of Terms 65
Al: Accreditations & Locations 66
Sc: Sample Chain of Custody 67

SSW-1 L1294257-01 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 08:30 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589454	1	12/11/20 07:03	12/11/20 07:13	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589729	1	12/10/20 17:40	12/10/20 18:53	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589609	27	12/07/20 08:30	12/10/20 13:14	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589574	1.08	12/07/20 08:30	12/10/20 09:10	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589269	1	12/09/20 21:29	12/10/20 04:03	DMG	Mt. Juliet, TN

WSW-1 L1294257-02 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 08:41 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589454	1	12/11/20 07:03	12/11/20 07:13	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589729	1	12/10/20 17:40	12/10/20 19:11	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589609	26	12/07/20 08:41	12/10/20 13:35	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589574	1.04	12/07/20 08:41	12/10/20 09:29	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589269	1	12/09/20 21:29	12/10/20 04:42	DMG	Mt. Juliet, TN

WSW-2 L1294257-03 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 10:09 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589454	1	12/11/20 07:03	12/11/20 07:13	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589729	1	12/10/20 17:40	12/10/20 19:21	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589609	28.2	12/07/20 10:09	12/10/20 13:56	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589574	1.13	12/07/20 10:09	12/10/20 09:48	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589269	1	12/09/20 21:29	12/10/20 04:55	DMG	Mt. Juliet, TN

WSW-3 L1294257-04 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 10:21 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589455	1	12/11/20 06:51	12/11/20 07:00	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589729	1	12/10/20 17:40	12/10/20 19:30	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589609	28.2	12/07/20 10:21	12/10/20 14:16	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589574	1.13	12/07/20 10:21	12/10/20 10:06	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589269	1	12/09/20 21:29	12/10/20 05:08	DMG	Mt. Juliet, TN

WSW-4 L1294257-05 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 10:29 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589455	1	12/11/20 06:51	12/11/20 07:00	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589729	1	12/10/20 17:40	12/10/20 19:40	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589609	26	12/07/20 10:29	12/10/20 14:37	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589574	1.04	12/07/20 10:29	12/10/20 10:25	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589269	1	12/09/20 21:29	12/10/20 05:21	DMG	Mt. Juliet, TN

WSW-5 L1294257-06 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 10:33 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589455	1	12/11/20 06:51	12/11/20 07:00	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589729	1	12/10/20 17:40	12/10/20 19:50	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589609	25	12/07/20 10:33	12/10/20 14:58	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589574	1	12/07/20 10:33	12/10/20 10:44	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589269	1	12/09/20 21:29	12/10/20 05:34	DMG	Mt. Juliet, TN

WSW-6 L1294257-07 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 10:54 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589455	1	12/11/20 06:51	12/11/20 07:00	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589729	1	12/10/20 17:40	12/10/20 19:59	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589609	25	12/07/20 10:54	12/10/20 15:39	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589574	1	12/07/20 10:54	12/10/20 11:03	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589269	1	12/09/20 21:29	12/10/20 05:47	DMG	Mt. Juliet, TN

WSW-7 L1294257-08 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 10:57 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589455	1	12/11/20 06:51	12/11/20 07:00	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589729	1	12/10/20 17:40	12/10/20 20:28	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589609	28.5	12/07/20 10:57	12/10/20 16:08	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589574	1.14	12/07/20 10:57	12/10/20 11:22	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589269	1	12/09/20 21:29	12/10/20 06:01	DMG	Mt. Juliet, TN

WSW-8 L1294257-09 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 11:17 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589455	1	12/11/20 06:51	12/11/20 07:00	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589729	1	12/10/20 17:40	12/10/20 20:42	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589609	26.5	12/07/20 11:17	12/10/20 16:55	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589574	1.06	12/07/20 11:17	12/10/20 11:41	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589269	1	12/09/20 21:29	12/10/20 06:14	DMG	Mt. Juliet, TN

WSW-9 L1294257-10 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 11:23 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589455	1	12/11/20 06:51	12/11/20 07:00	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589729	1	12/10/20 17:40	12/10/20 20:51	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589609	25.5	12/07/20 11:23	12/10/20 17:16	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589574	1.02	12/07/20 11:23	12/10/20 12:00	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589269	1	12/09/20 21:29	12/10/20 06:27	DMG	Mt. Juliet, TN

WSW-10 L1294257-11 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 11:44 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589455	1	12/11/20 06:51	12/11/20 07:00	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589729	1	12/10/20 17:40	12/10/20 21:20	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589609	25	12/07/20 11:44	12/10/20 17:39	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589574	1	12/07/20 11:44	12/10/20 12:19	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589269	1	12/09/20 21:29	12/10/20 06:40	DMG	Mt. Juliet, TN

WSW-11 L1294257-12 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 13:05 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589455	1	12/11/20 06:51	12/11/20 07:00	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589729	1	12/10/20 17:40	12/10/20 21:29	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589618	28	12/07/20 13:05	12/10/20 18:26	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589574	1.12	12/07/20 13:05	12/10/20 12:38	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589269	1	12/09/20 21:29	12/10/20 06:53	DMG	Mt. Juliet, TN

WSW-12 L1294257-13 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 13:11 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589455	1	12/11/20 06:51	12/11/20 07:00	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589729	1	12/10/20 17:40	12/10/20 21:39	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589618	26.8	12/07/20 13:11	12/10/20 18:47	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589574	1.07	12/07/20 13:11	12/10/20 12:57	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589269	1	12/09/20 21:29	12/10/20 07:06	DMG	Mt. Juliet, TN

WSW-13 L1294257-14 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 13:16 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589456	1	12/11/20 06:37	12/11/20 06:49	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589729	1	12/10/20 17:40	12/10/20 21:48	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589618	25	12/07/20 13:16	12/10/20 19:07	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589574	1	12/07/20 13:16	12/10/20 13:16	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589269	1	12/09/20 21:29	12/10/20 07:19	DMG	Mt. Juliet, TN

ESW-1 L1294257-15 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 13:22 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589456	1	12/11/20 06:37	12/11/20 06:49	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589729	1	12/10/20 17:40	12/10/20 21:58	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589618	28	12/07/20 13:22	12/10/20 21:12	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589574	1.12	12/07/20 13:22	12/10/20 13:34	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589269	1	12/09/20 21:29	12/10/20 07:32	DMG	Mt. Juliet, TN

ESW-2 L1294257-16 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 13:29 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589456	1	12/11/20 06:37	12/11/20 06:49	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589729	1	12/10/20 17:40	12/10/20 22:26	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589618	26.3	12/07/20 13:29	12/10/20 21:33	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589574	1.05	12/07/20 13:29	12/10/20 13:53	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589269	1	12/09/20 21:29	12/10/20 07:45	DMG	Mt. Juliet, TN

ESW-3 L1294257-17 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 13:33 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589456	1	12/11/20 06:37	12/11/20 06:49	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589729	1	12/10/20 17:40	12/10/20 22:36	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589618	25.5	12/07/20 13:33	12/10/20 21:53	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589574	1.02	12/07/20 13:33	12/10/20 14:12	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589269	1	12/09/20 21:29	12/10/20 07:58	DMG	Mt. Juliet, TN

ESW-4 L1294257-18 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 13:40 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589456	1	12/11/20 06:37	12/11/20 06:49	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589729	1	12/10/20 17:40	12/10/20 22:45	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589618	27.8	12/07/20 13:40	12/10/20 22:14	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589738	1.11	12/07/20 13:40	12/10/20 11:49	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589269	1	12/09/20 21:29	12/10/20 08:11	DMG	Mt. Juliet, TN

ESW-5 L1294257-19 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 13:44 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589456	1	12/11/20 06:37	12/11/20 06:49	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589729	1	12/10/20 17:40	12/10/20 22:55	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589618	26.5	12/07/20 13:44	12/10/20 22:35	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589738	1.06	12/07/20 13:44	12/10/20 12:08	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589269	1	12/09/20 21:29	12/10/20 08:24	DMG	Mt. Juliet, TN

ESW-6 L1294257-20 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 13:48 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589456	1	12/11/20 06:37	12/11/20 06:49	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589729	1	12/10/20 17:40	12/10/20 23:04	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589618	25	12/07/20 13:48	12/10/20 22:56	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589738	1	12/07/20 13:48	12/10/20 12:27	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589269	1	12/09/20 21:29	12/10/20 08:37	DMG	Mt. Juliet, TN

ESW-7 L1294257-21 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 14:01 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589456	1	12/11/20 06:37	12/11/20 06:49	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589730	1	12/10/20 17:40	12/11/20 00:02	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589618	28.7	12/07/20 14:01	12/10/20 23:17	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589738	1.15	12/07/20 14:01	12/10/20 11:30	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589373	1	12/09/20 23:18	12/10/20 17:27	TJD	Mt. Juliet, TN

ESW-8 L1294257-22 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 14:11 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589456	1	12/11/20 06:37	12/11/20 06:49	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589730	1	12/10/20 17:40	12/11/20 00:21	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589618	26.3	12/07/20 14:11	12/11/20 02:20	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589738	1.05	12/07/20 14:11	12/10/20 12:46	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589373	1	12/09/20 23:18	12/10/20 17:14	TJD	Mt. Juliet, TN

ESW-9 L1294257-23 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 14:15 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589456	1	12/11/20 06:37	12/11/20 06:49	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589730	1	12/10/20 17:40	12/11/20 00:30	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589618	25	12/07/20 14:15	12/11/20 02:41	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589738	1	12/07/20 14:15	12/10/20 13:05	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589373	1	12/09/20 23:18	12/10/20 17:40	TJD	Mt. Juliet, TN

ESW-10 L1294257-24 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 14:19 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589457	1	12/11/20 06:25	12/11/20 06:36	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589730	1	12/10/20 17:40	12/11/20 00:40	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589618	30	12/07/20 14:19	12/11/20 03:02	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589738	1.2	12/07/20 14:19	12/10/20 13:24	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589373	1	12/09/20 23:18	12/10/20 17:54	TJD	Mt. Juliet, TN

ESW-11 L1294257-25 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 14:30 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589457	1	12/11/20 06:25	12/11/20 06:36	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589730	1	12/10/20 17:40	12/11/20 00:49	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589618	27.3	12/07/20 14:30	12/11/20 03:23	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589738	1.09	12/07/20 14:30	12/10/20 13:43	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589373	1	12/09/20 23:18	12/10/20 18:07	TJD	Mt. Juliet, TN

ESW-12 L1294257-26 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 14:33 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589457	1	12/11/20 06:25	12/11/20 06:36	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589730	1	12/10/20 17:40	12/11/20 00:59	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589618	25.8	12/07/20 14:33	12/11/20 03:43	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589738	1.03	12/07/20 14:33	12/10/20 14:02	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589373	1	12/09/20 23:18	12/10/20 18:20	TJD	Mt. Juliet, TN

ESW-13 L1294257-27 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 14:38 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589457	1	12/11/20 06:25	12/11/20 06:36	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589730	1	12/10/20 17:40	12/11/20 01:08	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589618	28.5	12/07/20 14:38	12/11/20 04:04	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589738	1.14	12/07/20 14:38	12/10/20 14:21	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589373	1	12/09/20 23:18	12/10/20 18:33	TJD	Mt. Juliet, TN

ESW-14 L1294257-28 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 14:42 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589457	1	12/11/20 06:25	12/11/20 06:36	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589730	1	12/10/20 17:40	12/11/20 01:37	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589618	26	12/07/20 14:42	12/11/20 04:25	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589738	1.04	12/07/20 14:42	12/10/20 14:40	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589373	1	12/09/20 23:18	12/10/20 20:46	TJD	Mt. Juliet, TN

ESW-15 L1294257-29 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 14:47 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589457	1	12/11/20 06:25	12/11/20 06:36	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589730	1	12/10/20 17:40	12/11/20 01:46	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589618	25	12/07/20 14:47	12/11/20 04:46	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589738	1	12/07/20 14:47	12/10/20 14:59	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589373	1	12/09/20 23:18	12/10/20 19:13	TJD	Mt. Juliet, TN

ESW-16 L1294257-30 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 14:58 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589457	1	12/11/20 06:25	12/11/20 06:36	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589730	1	12/10/20 17:40	12/11/20 01:56	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589618	29.5	12/07/20 14:58	12/11/20 05:09	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589738	1.18	12/07/20 14:58	12/10/20 15:18	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589373	1	12/09/20 23:18	12/10/20 18:47	TJD	Mt. Juliet, TN

ESW-17 L1294257-31 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 15:11 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589457	1	12/11/20 06:25	12/11/20 06:36	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589730	1	12/10/20 17:40	12/11/20 02:24	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589618	30	12/07/20 15:11	12/11/20 05:29	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589738	1.2	12/07/20 15:11	12/10/20 15:37	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589373	1	12/09/20 23:18	12/10/20 19:00	TJD	Mt. Juliet, TN

ESW-18 L1294257-32 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 15:16 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589457	1	12/11/20 06:25	12/11/20 06:36	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589730	1	12/10/20 17:40	12/11/20 02:34	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589625	26.3	12/07/20 15:16	12/10/20 17:36	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589738	1.05	12/07/20 15:16	12/10/20 15:56	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589373	1	12/09/20 23:18	12/10/20 19:26	TJD	Mt. Juliet, TN

ESW-19 L1294257-33 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 15:19 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589457	1	12/11/20 06:25	12/11/20 06:36	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589730	1	12/10/20 17:40	12/11/20 02:43	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589625	26.5	12/07/20 15:19	12/10/20 18:24	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589744	1.06	12/07/20 15:19	12/10/20 15:21	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589373	1	12/09/20 23:18	12/10/20 19:40	TJD	Mt. Juliet, TN

NSW-1 L1294257-34 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 15:26 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589458	1	12/11/20 06:16	12/11/20 06:24	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589730	1	12/10/20 17:40	12/11/20 02:53	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589625	28.5	12/07/20 15:26	12/10/20 19:13	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589744	1.14	12/07/20 15:26	12/10/20 15:40	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589373	1	12/09/20 23:18	12/10/20 19:53	TJD	Mt. Juliet, TN

NSW-2 L1294257-35 Solid

Collected by: John Thurston | Collected date/time: 12/07/20 15:30 | Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589458	1	12/11/20 06:16	12/11/20 06:24	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589730	1	12/10/20 17:40	12/11/20 03:02	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589625	44.8	12/07/20 15:30	12/10/20 20:05	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589744	1.79	12/07/20 15:30	12/10/20 15:59	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589373	1	12/09/20 23:18	12/10/20 20:59	TJD	Mt. Juliet, TN

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

FS-12 (2') L1294257-36 Solid

Collected by: John Thurston
Collected date/time: 12/07/20 15:33
Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589458	1	12/11/20 06:16	12/11/20 06:24	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589730	1	12/10/20 17:40	12/11/20 03:31	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589625	25	12/07/20 15:33	12/10/20 20:48	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589744	1	12/07/20 15:33	12/10/20 16:18	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589373	1	12/09/20 23:18	12/10/20 21:12	TJD	Mt. Juliet, TN

FS-13 (2') L1294257-37 Solid

Collected by: John Thurston
Collected date/time: 12/07/20 15:35
Received date/time: 12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1589458	1	12/11/20 06:16	12/11/20 06:24	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1589730	1	12/10/20 17:40	12/11/20 03:41	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1589625	25	12/07/20 15:35	12/10/20 21:50	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1589744	1	12/07/20 15:35	12/10/20 16:37	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1589373	1	12/09/20 23:18	12/10/20 21:25	TJD	Mt. Juliet, TN

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

Chris McCord
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.0		1	12/11/2020 07:13	WG1589454

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.49	20.6	1	12/10/2020 18:53	WG1589729

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	1.43	B J	0.621	2.86	27	12/10/2020 13:14	WG1589609
(S) a,a,a-Trifluorotoluene(FID)	*103*			*77.0-120*		*12/10/2020 13:14*	WG1589609

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		0.000534	0.00115	1.08	12/10/2020 09:10	WG1589574
Toluene	U		0.00148	0.00573	1.08	12/10/2020 09:10	WG1589574
Ethylbenzene	U		0.000844	0.00286	1.08	12/10/2020 09:10	WG1589574
Total Xylenes	U		0.00101	0.00744	1.08	12/10/2020 09:10	WG1589574
(S) Toluene-d8	*101*			*75.0-131*		*12/10/2020 09:10*	WG1589574
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*12/10/2020 09:10*	WG1589574
(S) 1,2-Dichloroethane-d4	*93.0*			*70.0-130*		*12/10/2020 09:10*	WG1589574

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	4.13	1	12/10/2020 04:03	WG1589269
C28-C40 Oil Range	6.02		0.283	4.13	1	12/10/2020 04:03	WG1589269
(S) o-Terphenyl	*72.9*			*18.0-148*		*12/10/2020 04:03*	WG1589269

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.7		1	12/11/2020 07:13	WG1589454

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.51	20.7	1	12/10/2020 19:11	WG1589729

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	1.63	B J	0.602	2.77	26	12/10/2020 13:35	WG1589609
(S) a,a,a-Trifluorotoluene(FID)	*102*			*77.0-120*		*12/10/2020 13:35*	WG1589609

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		0.000519	0.00111	1.04	12/10/2020 09:29	WG1589574
Toluene	U		0.00144	0.00555	1.04	12/10/2020 09:29	WG1589574
Ethylbenzene	U		0.000817	0.00277	1.04	12/10/2020 09:29	WG1589574
Total Xylenes	U		0.000976	0.00721	1.04	12/10/2020 09:29	WG1589574
(S) Toluene-d8	*101*			*75.0-131*		*12/10/2020 09:29*	WG1589574
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*12/10/2020 09:29*	WG1589574
(S) 1,2-Dichloroethane-d4	*94.4*			*70.0-130*		*12/10/2020 09:29*	WG1589574

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.23	J	1.66	4.14	1	12/10/2020 04:42	WG1589269
C28-C40 Oil Range	10.8		0.283	4.14	1	12/10/2020 04:42	WG1589269
(S) o-Terphenyl	*66.2*			*18.0-148*		*12/10/2020 04:42*	WG1589269

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.0		1	12/11/2020 07:13	WG1589454

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.49	20.6	1	12/10/2020 19:21	WG1589729

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	1.47	B J	0.648	2.99	28.2	12/10/2020 13:56	WG1589609
(S) a,a,a-Trifluorotoluene(FID)	*104*			*77.0-120*		*12/10/2020 13:56*	WG1589609

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		0.000559	0.00120	1.13	12/10/2020 09:48	WG1589574
Toluene	U		0.00156	0.00598	1.13	12/10/2020 09:48	WG1589574
Ethylbenzene	U		0.000882	0.00300	1.13	12/10/2020 09:48	WG1589574
Total Xylenes	U		0.00105	0.00779	1.13	12/10/2020 09:48	WG1589574
(S) Toluene-d8	*102*			*75.0-131*		*12/10/2020 09:48*	WG1589574
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*12/10/2020 09:48*	WG1589574
(S) 1,2-Dichloroethane-d4	*95.7*			*70.0-130*		*12/10/2020 09:48*	WG1589574

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	4.13	1	12/10/2020 04:55	WG1589269
C28-C40 Oil Range	5.50		0.283	4.13	1	12/10/2020 04:55	WG1589269
(S) o-Terphenyl	*59.8*			*18.0-148*		*12/10/2020 04:55*	WG1589269

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.0		1	12/11/2020 07:00	WG1589455

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.49	20.6	1	12/10/2020 19:30	WG1589729

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	1.37	B J	0.648	2.98	28.2	12/10/2020 14:16	WG1589609
(S) a,a,a-Trifluorotoluene(FID)	*105*			*77.0-120*		*12/10/2020 14:16*	WG1589609

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		0.000559	0.00120	1.13	12/10/2020 10:06	WG1589574
Toluene	U		0.00156	0.00598	1.13	12/10/2020 10:06	WG1589574
Ethylbenzene	U		0.000882	0.00300	1.13	12/10/2020 10:06	WG1589574
Total Xylenes	U		0.00105	0.00778	1.13	12/10/2020 10:06	WG1589574
(S) Toluene-d8	*102*			*75.0-131*		*12/10/2020 10:06*	WG1589574
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*12/10/2020 10:06*	WG1589574
(S) 1,2-Dichloroethane-d4	*91.0*			*70.0-130*		*12/10/2020 10:06*	WG1589574

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	12/10/2020 05:08	WG1589269
C28-C40 Oil Range	5.51		0.282	4.12	1	12/10/2020 05:08	WG1589269
(S) o-Terphenyl	*69.8*			*18.0-148*		*12/10/2020 05:08*	WG1589269

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.2		1	12/11/2020 07:00	WG1589455

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.47	20.6	1	12/10/2020 19:40	WG1589729

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	1.20	B J	0.596	2.75	26	12/10/2020 14:37	WG1589609
(S) a,a,a-Trifluorotoluene(FID)	*103*			*77.0-120*		*12/10/2020 14:37*	WG1589609

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	0.00110	1.04	12/10/2020 10:25	WG1589574
Toluene	U		0.00143	0.00550	1.04	12/10/2020 10:25	WG1589574
Ethylbenzene	U		0.000810	0.00275	1.04	12/10/2020 10:25	WG1589574
Total Xylenes	U		0.000967	0.00715	1.04	12/10/2020 10:25	WG1589574
(S) Toluene-d8	*101*			*75.0-131*		*12/10/2020 10:25*	WG1589574
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*12/10/2020 10:25*	WG1589574
(S) 1,2-Dichloroethane-d4	*95.7*			*70.0-130*		*12/10/2020 10:25*	WG1589574

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	12/10/2020 05:21	WG1589269
C28-C40 Oil Range	5.88		0.282	4.12	1	12/10/2020 05:21	WG1589269
(S) o-Terphenyl	*69.6*			*18.0-148*		*12/10/2020 05:21*	WG1589269

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.1		1	12/11/2020 07:00	WG1589455

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.48	20.6	1	12/10/2020 19:50	WG1589729

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	1.50	B J	0.576	2.65	25	12/10/2020 14:58	WG1589609
(S) a,a,a-Trifluorotoluene(FID)	*104*			*77.0-120*		*12/10/2020 14:58*	WG1589609

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		0.000495	0.00106	1	12/10/2020 10:44	WG1589574
Toluene	U		0.00138	0.00530	1	12/10/2020 10:44	WG1589574
Ethylbenzene	U		0.000781	0.00265	1	12/10/2020 10:44	WG1589574
Total Xylenes	U		0.000933	0.00689	1	12/10/2020 10:44	WG1589574
(S) Toluene-d8	*101*			*75.0-131*		*12/10/2020 10:44*	WG1589574
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*12/10/2020 10:44*	WG1589574
(S) 1,2-Dichloroethane-d4	*95.9*			*70.0-130*		*12/10/2020 10:44*	WG1589574

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	12/10/2020 05:34	WG1589269
C28-C40 Oil Range	7.04		0.282	4.12	1	12/10/2020 05:34	WG1589269
(S) o-Terphenyl	*67.3*			*18.0-148*		*12/10/2020 05:34*	WG1589269

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.5		1	12/11/2020 07:00	WG1589455

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.44	20.5	1	12/10/2020 19:59	WG1589729

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	1.15	B J	0.571	2.63	25	12/10/2020 15:39	WG1589609
(S) a,a,a-Trifluorotoluene(FID)	*103*			*77.0-120*		*12/10/2020 15:39*	WG1589609

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		0.000491	0.00105	1	12/10/2020 11:03	WG1589574
Toluene	U		0.00137	0.00526	1	12/10/2020 11:03	WG1589574
Ethylbenzene	U		0.000775	0.00263	1	12/10/2020 11:03	WG1589574
Total Xylenes	U		0.000925	0.00683	1	12/10/2020 11:03	WG1589574
(S) Toluene-d8	*100*			*75.0-131*		*12/10/2020 11:03*	WG1589574
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*12/10/2020 11:03*	WG1589574
(S) 1,2-Dichloroethane-d4	*95.9*			*70.0-130*		*12/10/2020 11:03*	WG1589574

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.85	J	1.65	4.10	1	12/10/2020 05:47	WG1589269
C28-C40 Oil Range	8.02		0.281	4.10	1	12/10/2020 05:47	WG1589269
(S) o-Terphenyl	*85.9*			*18.0-148*		*12/10/2020 05:47*	WG1589269

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.5		1	12/11/2020 07:00	WG1589455

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	11.6	J	9.44	20.5	1	12/10/2020 20:28	WG1589729

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	1.93	B J	0.648	2.99	28.5	12/10/2020 16:08	WG1589609
(S) a,a,a-Trifluorotoluene(FID)	*97.0*			*77.0-120*		*12/10/2020 16:08*	WG1589609

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		0.000558	0.00120	1.14	12/10/2020 11:22	WG1589574
Toluene	U		0.00155	0.00598	1.14	12/10/2020 11:22	WG1589574
Ethylbenzene	U		0.000881	0.00299	1.14	12/10/2020 11:22	WG1589574
Total Xylenes	U		0.00105	0.00777	1.14	12/10/2020 11:22	WG1589574
(S) Toluene-d8	*102*			*75.0-131*		*12/10/2020 11:22*	WG1589574
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*12/10/2020 11:22*	WG1589574
(S) 1,2-Dichloroethane-d4	*91.6*			*70.0-130*		*12/10/2020 11:22*	WG1589574

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		1.65	4.10	1	12/10/2020 06:01	WG1589269
C28-C40 Oil Range	5.83		0.281	4.10	1	12/10/2020 06:01	WG1589269
(S) o-Terphenyl	*64.8*			*18.0-148*		*12/10/2020 06:01*	WG1589269

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.6		1	12/11/2020 07:00	WG1589455

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	39.4		9.82	21.4	1	12/10/2020 20:42	WG1589729

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	1.47	B J	0.651	3.00	26.5	12/10/2020 16:55	WG1589609
(S) a,a,a-Trifluorotoluene(FID)	*105*			*77.0-120*		*12/10/2020 16:55*	WG1589609

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		0.000560	0.00120	1.06	12/10/2020 11:41	WG1589574
Toluene	U		0.00156	0.00600	1.06	12/10/2020 11:41	WG1589574
Ethylbenzene	U		0.000884	0.00300	1.06	12/10/2020 11:41	WG1589574
Total Xylenes	U		0.00106	0.00780	1.06	12/10/2020 11:41	WG1589574
(S) Toluene-d8	*100*			*75.0-131*		*12/10/2020 11:41*	WG1589574
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*12/10/2020 11:41*	WG1589574
(S) 1,2-Dichloroethane-d4	*96.5*			*70.0-130*		*12/10/2020 11:41*	WG1589574

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.72	4.27	1	12/10/2020 06:14	WG1589269
C28-C40 Oil Range	5.67		0.293	4.27	1	12/10/2020 06:14	WG1589269
(S) o-Terphenyl	*60.6*			*18.0-148*		*12/10/2020 06:14*	WG1589269

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.1		1	12/11/2020 07:00	WG1589455

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.29	20.2	1	12/10/2020 20:51	WG1589729

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	1.23	B J	0.563	2.60	25.5	12/10/2020 17:16	WG1589609
(S) a,a,a-Trifluorotoluene(FID)	*102*			*77.0-120*		*12/10/2020 17:16*	WG1589609

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		0.000485	0.00104	1.02	12/10/2020 12:00	WG1589574
Toluene	U		0.00135	0.00520	1.02	12/10/2020 12:00	WG1589574
Ethylbenzene	U		0.000766	0.00260	1.02	12/10/2020 12:00	WG1589574
Total Xylenes	U		0.000915	0.00675	1.02	12/10/2020 12:00	WG1589574
(S) Toluene-d8	*103*			*75.0-131*		*12/10/2020 12:00*	WG1589574
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*12/10/2020 12:00*	WG1589574
(S) 1,2-Dichloroethane-d4	*90.3*			*70.0-130*		*12/10/2020 12:00*	WG1589574

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.06	J	1.63	4.04	1	12/10/2020 06:27	WG1589269
C28-C40 Oil Range	9.24		0.277	4.04	1	12/10/2020 06:27	WG1589269
(S) o-Terphenyl	*64.0*			*18.0-148*		*12/10/2020 06:27*	WG1589269

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.3		1	12/11/2020 07:00	WG1589455

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.46	20.6	1	12/10/2020 21:20	WG1589729

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	1.11	B J	0.574	2.64	25	12/10/2020 17:39	WG1589609
(S) a,a,a-Trifluorotoluene(FID)	*102*			*77.0-120*		*12/10/2020 17:39*	WG1589609

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		0.000494	0.00106	1	12/10/2020 12:19	WG1589574
Toluene	U		0.00137	0.00529	1	12/10/2020 12:19	WG1589574
Ethylbenzene	U		0.000779	0.00264	1	12/10/2020 12:19	WG1589574
Total Xylenes	U		0.000930	0.00687	1	12/10/2020 12:19	WG1589574
(S) Toluene-d8	*101*			*75.0-131*		*12/10/2020 12:19*	WG1589574
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*12/10/2020 12:19*	WG1589574
(S) 1,2-Dichloroethane-d4	*95.0*			*70.0-130*		*12/10/2020 12:19*	WG1589574

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.75	J	1.66	4.11	1	12/10/2020 06:40	WG1589269
C28-C40 Oil Range	9.76		0.282	4.11	1	12/10/2020 06:40	WG1589269
(S) o-Terphenyl	*84.4*			*18.0-148*		*12/10/2020 06:40*	WG1589269

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.1		1	12/11/2020 07:00	WG1589455

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	33.5		9.28	20.2	1	12/10/2020 21:29	WG1589729

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		0.618	2.85	28	12/10/2020 18:26	WG1589618
(S) a,a,a-Trifluorotoluene(FID)	*113*			*77.0-120*		*12/10/2020 18:26*	WG1589618

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		0.000532	0.00114	1.12	12/10/2020 12:38	WG1589574
Toluene	U		0.00149	0.00570	1.12	12/10/2020 12:38	WG1589574
Ethylbenzene	U		0.000839	0.00285	1.12	12/10/2020 12:38	WG1589574
Total Xylenes	U		0.00100	0.00741	1.12	12/10/2020 12:38	WG1589574
(S) Toluene-d8	*101*			*75.0-131*		*12/10/2020 12:38*	WG1589574
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*12/10/2020 12:38*	WG1589574
(S) 1,2-Dichloroethane-d4	*95.3*			*70.0-130*		*12/10/2020 12:38*	WG1589574

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.40	J	1.62	4.04	1	12/10/2020 06:53	WG1589269
C28-C40 Oil Range	11.9		0.276	4.04	1	12/10/2020 06:53	WG1589269
(S) o-Terphenyl	*77.3*			*18.0-148*		*12/10/2020 06:53*	WG1589269

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.9		1	12/11/2020 07:00	WG1589455

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	25.4		9.39	20.4	1	12/10/2020 21:39	WG1589729

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		0.606	2.79	26.8	12/10/2020 18:47	WG1589618
(S) a,a,a-Trifluorotoluene(FID)	*110*			*77.0-120*		*12/10/2020 18:47*	WG1589618

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		0.000520	0.00111	1.07	12/10/2020 12:57	WG1589574
Toluene	U		0.00145	0.00557	1.07	12/10/2020 12:57	WG1589574
Ethylbenzene	U		0.000821	0.00279	1.07	12/10/2020 12:57	WG1589574
Total Xylenes	U		0.000981	0.00724	1.07	12/10/2020 12:57	WG1589574
(S) Toluene-d8	*101*			*75.0-131*		*12/10/2020 12:57*	WG1589574
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*12/10/2020 12:57*	WG1589574
(S) 1,2-Dichloroethane-d4	*93.7*			*70.0-130*		*12/10/2020 12:57*	WG1589574

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.15	J	1.64	4.08	1	12/10/2020 07:06	WG1589269
C28-C40 Oil Range	15.6		0.280	4.08	1	12/10/2020 07:06	WG1589269
(S) o-Terphenyl	*69.0*			*18.0-148*		*12/10/2020 07:06*	WG1589269

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.4		1	12/11/2020 06:49	WG1589456

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.45	20.5	1	12/10/2020 21:48	WG1589729

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		0.572	2.63	25	12/10/2020 19:07	WG1589618
(S) a,a,a-Trifluorotoluene(FID)	*112*			*77.0-120*		*12/10/2020 19:07*	WG1589618

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		0.000492	0.00105	1	12/10/2020 13:16	WG1589574
Toluene	U		0.00137	0.00527	1	12/10/2020 13:16	WG1589574
Ethylbenzene	U		0.000776	0.00263	1	12/10/2020 13:16	WG1589574
Total Xylenes	U		0.000927	0.00685	1	12/10/2020 13:16	WG1589574
(S) Toluene-d8	*101*			*75.0-131*		*12/10/2020 13:16*	WG1589574
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*12/10/2020 13:16*	WG1589574
(S) 1,2-Dichloroethane-d4	*96.4*			*70.0-130*		*12/10/2020 13:16*	WG1589574

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.86	J	1.65	4.11	1	12/10/2020 07:19	WG1589269
C28-C40 Oil Range	9.61		0.281	4.11	1	12/10/2020 07:19	WG1589269
(S) o-Terphenyl	*62.9*			*18.0-148*		*12/10/2020 07:19*	WG1589269

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.0		1	12/11/2020 06:49	WG1589456

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.29	20.2	1	12/10/2020 21:58	WG1589729

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	0.735	J	0.620	2.85	28	12/10/2020 21:12	WG1589618
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*		*12/10/2020 21:12*	WG1589618

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		0.000533	0.00114	1.12	12/10/2020 13:34	WG1589574
Toluene	U		0.00149	0.00571	1.12	12/10/2020 13:34	WG1589574
Ethylbenzene	U		0.000841	0.00285	1.12	12/10/2020 13:34	WG1589574
Total Xylenes	U		0.00101	0.00742	1.12	12/10/2020 13:34	WG1589574
(S) Toluene-d8	*103*			*75.0-131*		*12/10/2020 13:34*	WG1589574
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*12/10/2020 13:34*	WG1589574
(S) 1,2-Dichloroethane-d4	*93.9*			*70.0-130*		*12/10/2020 13:34*	WG1589574

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.69	J	1.63	4.04	1	12/10/2020 07:32	WG1589269
C28-C40 Oil Range	11.9		0.277	4.04	1	12/10/2020 07:32	WG1589269
(S) o-Terphenyl	*71.5*			*18.0-148*		*12/10/2020 07:32*	WG1589269

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.4		1	12/11/2020 06:49	WG1589456

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.45	20.5	1	12/10/2020 22:26	WG1589729

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		0.601	2.77	26.3	12/10/2020 21:33	WG1589618
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*		*12/10/2020 21:33*	WG1589618

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		0.000516	0.00111	1.05	12/10/2020 13:53	WG1589574
Toluene	U		0.00143	0.00553	1.05	12/10/2020 13:53	WG1589574
Ethylbenzene	U		0.000815	0.00277	1.05	12/10/2020 13:53	WG1589574
Total Xylenes	U		0.000972	0.00719	1.05	12/10/2020 13:53	WG1589574
(S) Toluene-d8	*101*			*75.0-131*		*12/10/2020 13:53*	WG1589574
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*12/10/2020 13:53*	WG1589574
(S) 1,2-Dichloroethane-d4	*95.4*			*70.0-130*		*12/10/2020 13:53*	WG1589574

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		1.65	4.11	1	12/10/2020 07:45	WG1589269
C28-C40 Oil Range	15.1		0.281	4.11	1	12/10/2020 07:45	WG1589269
(S) o-Terphenyl	*64.8*			*18.0-148*		*12/10/2020 07:45*	WG1589269

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.9		1	12/11/2020 06:49	WG1589456

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.30	20.2	1	12/10/2020 22:36	WG1589729

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		0.565	2.61	25.5	12/10/2020 21:53	WG1589618
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*		*12/10/2020 21:53*	WG1589618

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		0.000487	0.00104	1.02	12/10/2020 14:12	WG1589574
Toluene	U		0.00136	0.00521	1.02	12/10/2020 14:12	WG1589574
Ethylbenzene	U		0.000769	0.00261	1.02	12/10/2020 14:12	WG1589574
Total Xylenes	U		0.000918	0.00678	1.02	12/10/2020 14:12	WG1589574
(S) Toluene-d8	*101*			*75.0-131*		*12/10/2020 14:12*	WG1589574
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*12/10/2020 14:12*	WG1589574
(S) 1,2-Dichloroethane-d4	*94.9*			*70.0-130*		*12/10/2020 14:12*	WG1589574

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.92	J	1.63	4.04	1	12/10/2020 07:58	WG1589269
C28-C40 Oil Range	10.4		0.277	4.04	1	12/10/2020 07:58	WG1589269
(S) o-Terphenyl	*60.0*			*18.0-148*		*12/10/2020 07:58*	WG1589269

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.8		1	12/11/2020 06:49	WG1589456

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.50	20.7	1	12/10/2020 22:45	WG1589729

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		0.641	2.95	27.8	12/10/2020 22:14	WG1589618
(S) a,a,a-Trifluorotoluene(FID)	*112*			*77.0-120*		*12/10/2020 22:14*	WG1589618

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		0.000550	0.00118	1.11	12/10/2020 11:49	WG1589738
Toluene	U		0.00153	0.00590	1.11	12/10/2020 11:49	WG1589738
Ethylbenzene	U		0.000869	0.00295	1.11	12/10/2020 11:49	WG1589738
Total Xylenes	U		0.00104	0.00767	1.11	12/10/2020 11:49	WG1589738
(S) Toluene-d8	*105*			*75.0-131*		*12/10/2020 11:49*	WG1589738
(S) 4-Bromofluorobenzene	*98.0*			*67.0-138*		*12/10/2020 11:49*	WG1589738
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*12/10/2020 11:49*	WG1589738

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	4.13	1	12/10/2020 08:11	WG1589269
C28-C40 Oil Range	9.34		0.283	4.13	1	12/10/2020 08:11	WG1589269
(S) o-Terphenyl	*57.3*			*18.0-148*		*12/10/2020 08:11*	WG1589269

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.9		1	12/11/2020 06:49	WG1589456

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	26.6		9.39	20.4	1	12/10/2020 22:55	WG1589729

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		0.599	2.76	26.5	12/10/2020 22:35	WG1589618
(S) a,a,a-Trifluorotoluene(FID)	*110*			*77.0-120*		*12/10/2020 22:35*	WG1589618

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		0.000515	0.00110	1.06	12/10/2020 12:08	WG1589738
Toluene	U		0.00144	0.00552	1.06	12/10/2020 12:08	WG1589738
Ethylbenzene	U		0.000813	0.00276	1.06	12/10/2020 12:08	WG1589738
Total Xylenes	U		0.000971	0.00717	1.06	12/10/2020 12:08	WG1589738
(S) Toluene-d8	*105*			*75.0-131*		*12/10/2020 12:08*	WG1589738
(S) 4-Bromofluorobenzene	*95.8*			*67.0-138*		*12/10/2020 12:08*	WG1589738
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*12/10/2020 12:08*	WG1589738

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.41	J	1.64	4.08	1	12/10/2020 08:24	WG1589269
C28-C40 Oil Range	11.5		0.280	4.08	1	12/10/2020 08:24	WG1589269
(S) o-Terphenyl	*77.5*			*18.0-148*		*12/10/2020 08:24*	WG1589269

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.9		1	12/11/2020 06:49	WG1589456

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	22.4		9.40	20.4	1	12/10/2020 23:04	WG1589729

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		0.567	2.61	25	12/10/2020 22:56	WG1589618
(S) a,a,a-Trifluorotoluene(FID)	*109*			*77.0-120*		*12/10/2020 22:56*	WG1589618

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		0.000487	0.00104	1	12/10/2020 12:27	WG1589738
Toluene	U		0.00136	0.00522	1	12/10/2020 12:27	WG1589738
Ethylbenzene	U		0.000769	0.00261	1	12/10/2020 12:27	WG1589738
Total Xylenes	U		0.000918	0.00678	1	12/10/2020 12:27	WG1589738
(S) Toluene-d8	*107*			*75.0-131*		*12/10/2020 12:27*	WG1589738
(S) 4-Bromofluorobenzene	*96.5*			*67.0-138*		*12/10/2020 12:27*	WG1589738
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*12/10/2020 12:27*	WG1589738

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.64	4.09	1	12/10/2020 08:37	WG1589269
C28-C40 Oil Range	10.8		0.280	4.09	1	12/10/2020 08:37	WG1589269
(S) o-Terphenyl	*76.1*			*18.0-148*		*12/10/2020 08:37*	WG1589269

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.9		1	12/11/2020 06:49	WG1589456

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.30	20.2	1	12/11/2020 00:02	WG1589730

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	1.57	J	0.636	2.93	28.7	12/10/2020 23:17	WG1589618
(S) a,a,a-Trifluorotoluene(FID)	*108*			*77.0-120*		*12/10/2020 23:17*	WG1589618

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		0.000548	0.00117	1.15	12/10/2020 11:30	WG1589738
Toluene	U		0.00152	0.00587	1.15	12/10/2020 11:30	WG1589738
Ethylbenzene	U		0.000866	0.00294	1.15	12/10/2020 11:30	WG1589738
Total Xylenes	U		0.00103	0.00764	1.15	12/10/2020 11:30	WG1589738
(S) Toluene-d8	*104*			*75.0-131*		*12/10/2020 11:30*	WG1589738
(S) 4-Bromofluorobenzene	*96.1*			*67.0-138*		*12/10/2020 11:30*	WG1589738
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*12/10/2020 11:30*	WG1589738

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	5.28		1.63	4.05	1	12/10/2020 17:27	WG1589373
C28-C40 Oil Range	13.8		0.277	4.05	1	12/10/2020 17:27	WG1589373
(S) o-Terphenyl	*88.5*			*18.0-148*		*12/10/2020 17:27*	WG1589373

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.1		1	12/11/2020 06:49	WG1589456

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	66.2		9.57	20.8	1	12/11/2020 00:21	WG1589730

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		0.616	2.84	26.3	12/11/2020 02:20	WG1589618
(S) a,a,a-Trifluorotoluene(FID)	*110*			*77.0-120*		*12/11/2020 02:20*	WG1589618

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		0.000529	0.00113	1.05	12/10/2020 12:46	WG1589738
Toluene	U		0.00147	0.00567	1.05	12/10/2020 12:46	WG1589738
Ethylbenzene	U		0.000835	0.00284	1.05	12/10/2020 12:46	WG1589738
Total Xylenes	U		0.000997	0.00737	1.05	12/10/2020 12:46	WG1589738
(S) Toluene-d8	*105*			*75.0-131*		*12/10/2020 12:46*	WG1589738
(S) 4-Bromofluorobenzene	*93.9*			*67.0-138*		*12/10/2020 12:46*	WG1589738
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*12/10/2020 12:46*	WG1589738

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.19	J	1.68	4.16	1	12/10/2020 17:14	WG1589373
C28-C40 Oil Range	9.54		0.285	4.16	1	12/10/2020 17:14	WG1589373
(S) o-Terphenyl	*80.4*			*18.0-148*		*12/10/2020 17:14*	WG1589373

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.0		1	12/11/2020 06:49	WG1589456

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.29	20.2	1	12/11/2020 00:30	WG1589730

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		0.554	2.55	25	12/11/2020 02:41	WG1589618
(S) a,a,a-Trifluorotoluene(FID)	*113*			*77.0-120*		*12/11/2020 02:41*	WG1589618

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		0.000477	0.00102	1	12/10/2020 13:05	WG1589738
Toluene	U		0.00133	0.00510	1	12/10/2020 13:05	WG1589738
Ethylbenzene	U		0.000752	0.00255	1	12/10/2020 13:05	WG1589738
Total Xylenes	U		0.000898	0.00663	1	12/10/2020 13:05	WG1589738
(S) Toluene-d8	*108*			*75.0-131*		*12/10/2020 13:05*	WG1589738
(S) 4-Bromofluorobenzene	*95.1*			*67.0-138*		*12/10/2020 13:05*	WG1589738
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*12/10/2020 13:05*	WG1589738

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.05	J	1.63	4.04	1	12/10/2020 17:40	WG1589373
C28-C40 Oil Range	6.87		0.277	4.04	1	12/10/2020 17:40	WG1589373
(S) o-Terphenyl	*73.1*			*18.0-148*		*12/10/2020 17:40*	WG1589373

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.8		1	12/11/2020 06:36	WG1589457

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	17.8	J	9.51	20.7	1	12/11/2020 00:40	WG1589730

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		0.691	3.18	30	12/11/2020 03:02	WG1589618
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*		*12/11/2020 03:02*	WG1589618

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		0.000594	0.00127	1.2	12/10/2020 13:24	WG1589738
Toluene	U		0.00165	0.00637	1.2	12/10/2020 13:24	WG1589738
Ethylbenzene	U		0.000938	0.00318	1.2	12/10/2020 13:24	WG1589738
Total Xylenes	U		0.00112	0.00827	1.2	12/10/2020 13:24	WG1589738
(S) Toluene-d8	*107*			*75.0-131*		*12/10/2020 13:24*	WG1589738
(S) 4-Bromofluorobenzene	*93.4*			*67.0-138*		*12/10/2020 13:24*	WG1589738
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*12/10/2020 13:24*	WG1589738

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.42	J	1.66	4.13	1	12/10/2020 17:54	WG1589373
C28-C40 Oil Range	12.1		0.283	4.13	1	12/10/2020 17:54	WG1589373
(S) o-Terphenyl	*75.2*			*18.0-148*		*12/10/2020 17:54*	WG1589373

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.4		1	12/11/2020 06:36	WG1589457

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	37.6		9.54	20.7	1	12/11/2020 00:49	WG1589730

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		0.634	2.92	27.3	12/11/2020 03:23	WG1589618
(S) a,a,a-Trifluorotoluene(FID)	*112*			*77.0-120*		*12/11/2020 03:23*	WG1589618

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		0.000545	0.00117	1.09	12/10/2020 13:43	WG1589738
Toluene	U		0.00152	0.00583	1.09	12/10/2020 13:43	WG1589738
Ethylbenzene	U		0.000860	0.00292	1.09	12/10/2020 13:43	WG1589738
Total Xylenes	U		0.00103	0.00758	1.09	12/10/2020 13:43	WG1589738
(S) Toluene-d8	*108*			*75.0-131*		*12/10/2020 13:43*	WG1589738
(S) 4-Bromofluorobenzene	*96.7*			*67.0-138*		*12/10/2020 13:43*	WG1589738
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*12/10/2020 13:43*	WG1589738

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.54	J	1.67	4.15	1	12/10/2020 18:07	WG1589373
C28-C40 Oil Range	7.79		0.284	4.15	1	12/10/2020 18:07	WG1589373
(S) o-Terphenyl	*77.5*			*18.0-148*		*12/10/2020 18:07*	WG1589373

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.9		1	12/11/2020 06:36	WG1589457

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.49	20.6	1	12/11/2020 00:59	WG1589730

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		0.595	2.74	25.8	12/11/2020 03:43	WG1589618
(S) a,a,a-Trifluorotoluene(FID)	*114*			*77.0-120*		*12/11/2020 03:43*	WG1589618

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		0.000511	0.00109	1.03	12/10/2020 14:02	WG1589738
Toluene	U		0.00142	0.00547	1.03	12/10/2020 14:02	WG1589738
Ethylbenzene	U		0.000807	0.00274	1.03	12/10/2020 14:02	WG1589738
Total Xylenes	U		0.000963	0.00712	1.03	12/10/2020 14:02	WG1589738
(S) Toluene-d8	*108*			*75.0-131*		*12/10/2020 14:02*	WG1589738
(S) 4-Bromofluorobenzene	*95.5*			*67.0-138*		*12/10/2020 14:02*	WG1589738
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*12/10/2020 14:02*	WG1589738

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.14	J	1.66	4.13	1	12/10/2020 18:20	WG1589373
C28-C40 Oil Range	12.2		0.283	4.13	1	12/10/2020 18:20	WG1589373
(S) o-Terphenyl	*82.1*			*18.0-148*		*12/10/2020 18:20*	WG1589373

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.2		1	12/11/2020 06:36	WG1589457

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	199		9.57	20.8	1	12/11/2020 01:08	WG1589730

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		0.664	3.06	28.5	12/11/2020 04:04	WG1589618
(S) a,a,a-Trifluorotoluene(FID)	*109*			*77.0-120*		*12/11/2020 04:04*	WG1589618

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		0.000572	0.00123	1.14	12/10/2020 14:21	WG1589738
Toluene	U		0.00159	0.00613	1.14	12/10/2020 14:21	WG1589738
Ethylbenzene	U		0.000903	0.00306	1.14	12/10/2020 14:21	WG1589738
Total Xylenes	U		0.00107	0.00796	1.14	12/10/2020 14:21	WG1589738
(S) Toluene-d8	*108*			*75.0-131*		*12/10/2020 14:21*	WG1589738
(S) 4-Bromofluorobenzene	*96.3*			*67.0-138*		*12/10/2020 14:21*	WG1589738
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*12/10/2020 14:21*	WG1589738

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.47	J	1.67	4.16	1	12/10/2020 18:33	WG1589373
C28-C40 Oil Range	13.4		0.285	4.16	1	12/10/2020 18:33	WG1589373
(S) o-Terphenyl	*83.5*			*18.0-148*		*12/10/2020 18:33*	WG1589373

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.0		1	12/11/2020 06:36	WG1589457

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.29	20.2	1	12/11/2020 01:37	WG1589730

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		0.575	2.65	26	12/11/2020 04:25	WG1589618
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*		*12/11/2020 04:25*	WG1589618

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		0.000495	0.00106	1.04	12/10/2020 14:40	WG1589738
Toluene	U		0.00138	0.00530	1.04	12/10/2020 14:40	WG1589738
Ethylbenzene	U		0.000781	0.00265	1.04	12/10/2020 14:40	WG1589738
Total Xylenes	U		0.000932	0.00689	1.04	12/10/2020 14:40	WG1589738
(S) Toluene-d8	*105*			*75.0-131*		*12/10/2020 14:40*	WG1589738
(S) 4-Bromofluorobenzene	*94.5*			*67.0-138*		*12/10/2020 14:40*	WG1589738
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*12/10/2020 14:40*	WG1589738

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.74	J	1.63	4.04	1	12/10/2020 20:46	WG1589373
C28-C40 Oil Range	10.4		0.277	4.04	1	12/10/2020 20:46	WG1589373
(S) o-Terphenyl	*87.1*			*18.0-148*		*12/10/2020 20:46*	WG1589373

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.5		1	12/11/2020 06:36	WG1589457

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	13.5	J	9.53	20.7	1	12/11/2020 01:46	WG1589730

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		0.582	2.68	25	12/11/2020 04:46	WG1589618
(S) a,a,a-Trifluorotoluene(FID)	*109*			*77.0-120*		*12/11/2020 04:46*	WG1589618

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		0.000501	0.00107	1	12/10/2020 14:59	WG1589738
Toluene	U		0.00139	0.00536	1	12/10/2020 14:59	WG1589738
Ethylbenzene	U		0.000790	0.00268	1	12/10/2020 14:59	WG1589738
Total Xylenes	U		0.000943	0.00697	1	12/10/2020 14:59	WG1589738
(S) Toluene-d8	*108*			*75.0-131*		*12/10/2020 14:59*	WG1589738
(S) 4-Bromofluorobenzene	*93.1*			*67.0-138*		*12/10/2020 14:59*	WG1589738
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*12/10/2020 14:59*	WG1589738

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.78	J	1.67	4.14	1	12/10/2020 19:13	WG1589373
C28-C40 Oil Range	13.9		0.284	4.14	1	12/10/2020 19:13	WG1589373
(S) o-Terphenyl	*87.2*			*18.0-148*		*12/10/2020 19:13*	WG1589373

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.9		1	12/11/2020 06:36	WG1589457

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.50	20.6	1	12/11/2020 01:56	WG1589730

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		0.678	3.12	29.5	12/11/2020 05:09	WG1589618
(S) a,a,a-Trifluorotoluene(FID)	*109*			*77.0-120*		*12/11/2020 05:09*	WG1589618

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		0.000584	0.00125	1.18	12/10/2020 15:18	WG1589738
Toluene	U		0.00162	0.00625	1.18	12/10/2020 15:18	WG1589738
Ethylbenzene	U		0.000922	0.00312	1.18	12/10/2020 15:18	WG1589738
Total Xylenes	U		0.00110	0.00812	1.18	12/10/2020 15:18	WG1589738
(S) Toluene-d8	*104*			*75.0-131*		*12/10/2020 15:18*	WG1589738
(S) 4-Bromofluorobenzene	*91.8*			*67.0-138*		*12/10/2020 15:18*	WG1589738
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*12/10/2020 15:18*	WG1589738

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.15	J	1.66	4.13	1	12/10/2020 18:47	WG1589373
C28-C40 Oil Range	9.22		0.283	4.13	1	12/10/2020 18:47	WG1589373
(S) o-Terphenyl	*84.6*			*18.0-148*		*12/10/2020 18:47*	WG1589373

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.4		1	12/11/2020 06:36	WG1589457

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.45	20.5	1	12/11/2020 02:24	WG1589730

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		0.683	3.15	30	12/11/2020 05:29	WG1589618
(S) a,a,a-Trifluorotoluene(FID)	*112*			*77.0-120*		*12/11/2020 05:29*	WG1589618

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		0.000588	0.00126	1.2	12/10/2020 15:37	WG1589738
Toluene	U		0.00164	0.00630	1.2	12/10/2020 15:37	WG1589738
Ethylbenzene	U		0.000927	0.00315	1.2	12/10/2020 15:37	WG1589738
Total Xylenes	U		0.00111	0.00818	1.2	12/10/2020 15:37	WG1589738
(S) Toluene-d8	*108*			*75.0-131*		*12/10/2020 15:37*	WG1589738
(S) 4-Bromofluorobenzene	*96.0*			*67.0-138*		*12/10/2020 15:37*	WG1589738
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*12/10/2020 15:37*	WG1589738

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	5.19		1.65	4.11	1	12/10/2020 19:00	WG1589373
C28-C40 Oil Range	10.3		0.281	4.11	1	12/10/2020 19:00	WG1589373
(S) o-Terphenyl	*82.8*			*18.0-148*		*12/10/2020 19:00*	WG1589373

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.4		1	12/11/2020 06:36	WG1589457

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	55.5		9.35	20.3	1	12/11/2020 02:34	WG1589730

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	1.68	B J	0.589	2.71	26.3	12/10/2020 17:36	WG1589625
(S) a,a,a-Trifluorotoluene(FID)	*97.3*			*77.0-120*		*12/10/2020 17:36*	WG1589625

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		0.000505	0.00108	1.05	12/10/2020 15:56	WG1589738
Toluene	U		0.00140	0.00541	1.05	12/10/2020 15:56	WG1589738
Ethylbenzene	U		0.000798	0.00271	1.05	12/10/2020 15:56	WG1589738
Total Xylenes	U		0.000953	0.00704	1.05	12/10/2020 15:56	WG1589738
(S) Toluene-d8	*109*			*75.0-131*		*12/10/2020 15:56*	WG1589738
(S) 4-Bromofluorobenzene	*93.6*			*67.0-138*		*12/10/2020 15:56*	WG1589738
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*12/10/2020 15:56*	WG1589738

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.10	J	1.64	4.06	1	12/10/2020 19:26	WG1589373
C28-C40 Oil Range	14.1		0.278	4.06	1	12/10/2020 19:26	WG1589373
(S) o-Terphenyl	*86.3*			*18.0-148*		*12/10/2020 19:26*	WG1589373

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.5		1	12/11/2020 06:36	WG1589457

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	41.6		9.34	20.3	1	12/11/2020 02:43	WG1589730

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	1.51	B J	0.592	2.73	26.5	12/10/2020 18:24	WG1589625
(S) a,a,a-Trifluorotoluene(FID)	*96.5*			*77.0-120*		*12/10/2020 18:24*	WG1589625

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		0.000509	0.00109	1.06	12/10/2020 15:21	WG1589744
Toluene	U		0.00142	0.00545	1.06	12/10/2020 15:21	WG1589744
Ethylbenzene	U		0.000804	0.00273	1.06	12/10/2020 15:21	WG1589744
Total Xylenes	U		0.000960	0.00709	1.06	12/10/2020 15:21	WG1589744
(S) Toluene-d8	*112*			*75.0-131*		*12/10/2020 15:21*	WG1589744
(S) 4-Bromofluorobenzene	*99.6*			*67.0-138*		*12/10/2020 15:21*	WG1589744
(S) 1,2-Dichloroethane-d4	*84.6*			*70.0-130*		*12/10/2020 15:21*	WG1589744

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.73	J	1.63	4.06	1	12/10/2020 19:40	WG1589373
C28-C40 Oil Range	11.5		0.278	4.06	1	12/10/2020 19:40	WG1589373
(S) o-Terphenyl	*78.1*			*18.0-148*		*12/10/2020 19:40*	WG1589373

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.7		1	12/11/2020 06:24	WG1589458

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.52	20.7	1	12/11/2020 02:53	WG1589730

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	1.58	B J	0.658	3.03	28.5	12/10/2020 19:13	WG1589625
(S) a,a,a-Trifluorotoluene(FID)	*96.3*			*77.0-120*		*12/10/2020 19:13*	WG1589625

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		0.000566	0.00121	1.14	12/10/2020 15:40	WG1589744
Toluene	U		0.00158	0.00607	1.14	12/10/2020 15:40	WG1589744
Ethylbenzene	U		0.000894	0.00303	1.14	12/10/2020 15:40	WG1589744
Total Xylenes	U		0.00106	0.00789	1.14	12/10/2020 15:40	WG1589744
(S) Toluene-d8	*112*			*75.0-131*		*12/10/2020 15:40*	WG1589744
(S) 4-Bromofluorobenzene	*96.7*			*67.0-138*		*12/10/2020 15:40*	WG1589744
(S) 1,2-Dichloroethane-d4	*85.6*			*70.0-130*		*12/10/2020 15:40*	WG1589744

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.72	J	1.67	4.14	1	12/10/2020 19:53	WG1589373
C28-C40 Oil Range	5.47		0.283	4.14	1	12/10/2020 19:53	WG1589373
(S) o-Terphenyl	*82.4*			*18.0-148*		*12/10/2020 19:53*	WG1589373

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.0		1	12/11/2020 06:24	WG1589458

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.29	20.2	1	12/11/2020 03:02	WG1589730

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	2.44	B J	0.987	4.55	44.8	12/10/2020 20:05	WG1589625
(S) a,a,a-Trifluorotoluene(FID)	*96.3*			*77.0-120*		*12/10/2020 20:05*	WG1589625

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		0.000849	0.00182	1.79	12/10/2020 15:59	WG1589744
Toluene	U		0.00237	0.00909	1.79	12/10/2020 15:59	WG1589744
Ethylbenzene	U		0.00134	0.00455	1.79	12/10/2020 15:59	WG1589744
Total Xylenes	U		0.00160	0.0118	1.79	12/10/2020 15:59	WG1589744
(S) Toluene-d8	*115*			*75.0-131*		*12/10/2020 15:59*	WG1589744
(S) 4-Bromofluorobenzene	*96.7*			*67.0-138*		*12/10/2020 15:59*	WG1589744
(S) 1,2-Dichloroethane-d4	*81.1*			*70.0-130*		*12/10/2020 15:59*	WG1589744

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.54	J	1.63	4.04	1	12/10/2020 20:59	WG1589373
C28-C40 Oil Range	9.84		0.277	4.04	1	12/10/2020 20:59	WG1589373
(S) o-Terphenyl	*82.9*			*18.0-148*		*12/10/2020 20:59*	WG1589373

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.6		1	12/11/2020 06:24	WG1589458

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.42	20.5	1	12/11/2020 03:31	WG1589730

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	1.27	B J	0.569	2.62	25	12/10/2020 20:48	WG1589625
(S) a,a,a-Trifluorotoluene(FID)	*96.4*			*77.0-120*		*12/10/2020 20:48*	WG1589625

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		0.000490	0.00105	1	12/10/2020 16:18	WG1589744
Toluene	U		0.00136	0.00524	1	12/10/2020 16:18	WG1589744
Ethylbenzene	U		0.000773	0.00262	1	12/10/2020 16:18	WG1589744
Total Xylenes	U		0.000923	0.00681	1	12/10/2020 16:18	WG1589744
(S) Toluene-d8	*114*			*75.0-131*		*12/10/2020 16:18*	WG1589744
(S) 4-Bromofluorobenzene	*98.0*			*67.0-138*		*12/10/2020 16:18*	WG1589744
(S) 1,2-Dichloroethane-d4	*85.9*			*70.0-130*		*12/10/2020 16:18*	WG1589744

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.76	J	1.65	4.10	1	12/10/2020 21:12	WG1589373
C28-C40 Oil Range	7.07		0.281	4.10	1	12/10/2020 21:12	WG1589373
(S) o-Terphenyl	*77.8*			*18.0-148*		*12/10/2020 21:12*	WG1589373

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.5		1	12/11/2020 06:24	WG1589458

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.44	20.5	1	12/11/2020 03:41	WG1589730

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	0.982	B J	0.572	2.63	25	12/10/2020 21:50	WG1589625
(S) a,a,a-Trifluorotoluene(FID)	*95.1*			*77.0-120*		*12/10/2020 21:50*	WG1589625

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		0.000492	0.00105	1	12/10/2020 16:37	WG1589744
Toluene	U		0.00137	0.00526	1	12/10/2020 16:37	WG1589744
Ethylbenzene	U		0.000776	0.00263	1	12/10/2020 16:37	WG1589744
Total Xylenes	U		0.000927	0.00684	1	12/10/2020 16:37	WG1589744
(S) Toluene-d8	*114*			*75.0-131*		*12/10/2020 16:37*	WG1589744
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*12/10/2020 16:37*	WG1589744
(S) 1,2-Dichloroethane-d4	*86.1*			*70.0-130*		*12/10/2020 16:37*	WG1589744

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.02	J	1.65	4.10	1	12/10/2020 21:25	WG1589373
C28-C40 Oil Range	8.20		0.281	4.10	1	12/10/2020 21:25	WG1589373
(S) o-Terphenyl	*78.2*			*18.0-148*		*12/10/2020 21:25*	WG1589373

Method Blank (MB)

(MB) R3602630-1 12/11/20 07:13

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

L1293442-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1293442-08 12/11/20 07:13 • (DUP) R3602630-3 12/11/20 07:13

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	81.3	80.3	1	1.27		10

Laboratory Control Sample (LCS)

(LCS) R3602630-2 12/11/20 07:13

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

Method Blank (MB)

(MB) R3602620-1 12/11/20 07:00

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

L1294257-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1294257-12 12/11/20 07:00 • (DUP) R3602620-3 12/11/20 07:00

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	99.1	99.0	1	0.0610		10

Laboratory Control Sample (LCS)

(LCS) R3602620-2 12/11/20 07:00

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

Method Blank (MB)

(MB) R3602614-1 12/11/20 06:49

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

L1294257-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1294257-21 12/11/20 06:49 • (DUP) R3602614-3 12/11/20 06:49

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	98.9	98.8	1	0.0589		10

Laboratory Control Sample (LCS)

(LCS) R3602614-2 12/11/20 06:49

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

Method Blank (MB)

(MB) R3602608-1 12/11/20 06:36

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

L1294257-31 Original Sample (OS) • Duplicate (DUP)

(OS) L1294257-31 12/11/20 06:36 • (DUP) R3602608-3 12/11/20 06:36

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	97.4	97.5	1	0.147		10

Laboratory Control Sample (LCS)

(LCS) R3602608-2 12/11/20 06:36

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

Method Blank (MB)

(MB) R3602604-1 12/11/20 06:24

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

L1294280-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1294280-01 12/11/20 06:24 • (DUP) R3602604-3 12/11/20 06:24

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	80.0	80.4	1	0.489		10

Laboratory Control Sample (LCS)

(LCS) R3602604-2 12/11/20 06:24

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

Method Blank (MB)

(MB) R3602683-1 12/10/20 18:17

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1294257-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1294257-01 12/10/20 18:53 • (DUP) R3602683-3 12/10/20 19:02

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		20

L1294257-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1294257-20 12/10/20 23:04 • (DUP) R3602683-6 12/10/20 23:14

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	22.4	20.7	1	7.80		20

Laboratory Control Sample (LCS)

(LCS) R3602683-2 12/10/20 18:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	191	95.4	90.0-110	

L1294257-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1294257-10 12/10/20 20:51 • (MS) R3602683-4 12/10/20 21:01 • (MSD) R3602683-5 12/10/20 21:10

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	505	U	515	502	102	99.5	1	80.0-120			2.49	20

Method Blank (MB)

(MB) R3602684-1 12/10/20 23:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1294257-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1294257-21 12/11/20 00:02 • (DUP) R3602684-3 12/11/20 00:11

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		20

L1294257-37 Original Sample (OS) • Duplicate (DUP)

(OS) L1294257-37 12/11/20 03:41 • (DUP) R3602684-6 12/11/20 03:50

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3602684-2 12/10/20 23:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	191	95.6	90.0-110	

L1294257-30 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1294257-30 12/11/20 01:56 • (MS) R3602684-4 12/11/20 02:05 • (MSD) R3602684-5 12/11/20 02:15

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	516	U	520	495	101	95.8	1	80.0-120			4.96	20

Method Blank (MB)

(MB) R3602291-2 12/10/20 11:32

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0261	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*94.3*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3602291-1 12/10/20 10:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.99	90.7	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*108*	*77.0-120*	

L1294257-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1294257-11 12/10/20 17:39 • (MS) R3602291-3 12/10/20 21:06 • (MSD) R3602291-4 12/10/20 21:26

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	142	1.11	164	183	115	128	25	10.0-151			11.0	28
(S) a,a,a-Trifluorotoluene(FID)					*120*	*120*		*77.0-120*				

Method Blank (MB)

(MB) R3602565-3 12/10/20 14:29

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)	*112*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3602565-2 12/10/20 13:40

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.14	112	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*106*	*77.0-120*	

L1294257-31 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1294257-31 12/11/20 05:29 • (MS) R3602565-4 12/11/20 05:50 • (MSD) R3602565-5 12/11/20 06:11

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	173	U	167	167	96.4	96.4	30	10.0-151			0.000	28
(S) a,a,a-Trifluorotoluene(FID)					*104*	*105*		*77.0-120*				

Method Blank (MB)

(MB) R3602559-2 12/10/20 16:26

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0895	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*97.2*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3602559-1 12/10/20 14:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.62	102	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*103*	*77.0-120*	

L1293270-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1293270-11 12/11/20 00:24 • (MS) R3602559-3 12/11/20 02:20 • (MSD) R3602559-4 12/11/20 02:43

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	164	0.724	185	173	112	105	29.8	10.0-151			6.70	28
(S) a,a,a-Trifluorotoluene(FID)					*107*	*107*		*77.0-120*				

Method Blank (MB)

(MB) R3602073-3 12/10/20 07:08

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*101*			*75.0-131*
(S) 4-Bromofluorobenzene	*107*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*94.8*			*70.0-130*

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

(LCS) R3602073-1 12/10/20 05:53 • (LCSD) R3602073-2 12/10/20 06:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.118	0.116	94.4	92.8	70.0-123			1.71	20
Ethylbenzene	0.125	0.116	0.114	92.8	91.2	74.0-126			1.74	20
Toluene	0.125	0.117	0.116	93.6	92.8	75.0-121			0.858	20
Xylenes, Total	0.375	0.364	0.362	97.1	96.5	72.0-127			0.551	20
(S) Toluene-d8				*100*	*99.3*	*75.0-131*				
(S) 4-Bromofluorobenzene				*108*	*107*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*96.9*	*93.5*	*70.0-130*				

Method Blank (MB)

(MB) R3602310-2 12/10/20 08:30

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*109*			*75.0-131*
(S) 4-Bromofluorobenzene	*93.9*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3602310-1 12/10/20 05:08

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.127	102	70.0-123	
Ethylbenzene	0.125	0.118	94.4	74.0-126	
Toluene	0.125	0.113	90.4	75.0-121	
Xylenes, Total	0.375	0.364	97.1	72.0-127	
(S) Toluene-d8			*100*	*75.0-131*	
(S) 4-Bromofluorobenzene			*103*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*120*	*70.0-130*	

Method Blank (MB)

(MB) R3602303-3 12/10/20 14:24

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*116*			*75.0-131*
(S) 4-Bromofluorobenzene	*97.1*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*83.1*			*70.0-130*

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

(LCS) R3602303-1 12/10/20 12:32 • (LCSD) R3602303-2 12/10/20 12:51

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	0.107	0.109	85.6	87.2	70.0-123			1.85	20
Ethylbenzene	0.125	0.123	0.128	98.4	102	74.0-126			3.98	20
Toluene	0.125	0.112	0.111	89.6	88.8	75.0-121			0.897	20
Xylenes, Total	0.375	0.376	0.360	100	96.0	72.0-127			4.35	20
(S) Toluene-d8				*108*	*108*	*75.0-131*				
(S) 4-Bromofluorobenzene				*104*	*104*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*88.8*	*89.9*	*70.0-130*				

L1292941-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1292941-01 12/10/20 20:07 • (MS) R3602303-4 12/10/20 21:23 • (MSD) R3602303-5 12/10/20 21:42

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.213	U	0.158	0.0961	74.2	45.1	1.7	10.0-149		J3	48.7	37
Ethylbenzene	0.213	U	0.184	0.112	86.4	52.6	1.7	10.0-160		J3	48.6	38
Toluene	0.213	U	0.171	0.106	80.3	49.8	1.7	10.0-156		J3	46.9	38
Xylenes, Total	0.638	U	0.553	0.316	86.7	49.5	1.7	10.0-160		J3	54.5	38
(S) Toluene-d8					*113*	*114*		*75.0-131*				
(S) 4-Bromofluorobenzene					*99.6*	*96.1*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*87.4*	*84.6*		*70.0-130*				

Method Blank (MB)

(MB) R3602200-1 12/10/20 03:09

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*73.1*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3602200-2 12/10/20 03:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	37.0	74.0	50.0-150	
(S) o-Terphenyl			*70.1*	*18.0-148*	

L1294257-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1294257-01 12/10/20 04:03 • (MS) R3602200-3 12/10/20 04:16 • (MSD) R3602200-4 12/10/20 04:29

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	50.4	U	28.5	34.4	56.4	68.2	1	50.0-150			19.0	20
(S) o-Terphenyl					*50.3*	*61.5*		*18.0-148*				

Method Blank (MB)

(MB) R3602404-1 12/10/20 16:47

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	*92.3*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3602404-2 12/10/20 17:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	45.6	91.2	50.0-150	
(S) o-Terphenyl			*102*	*18.0-148*	

Guide to Reading and Understanding Your Laboratory Report

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

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.

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

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

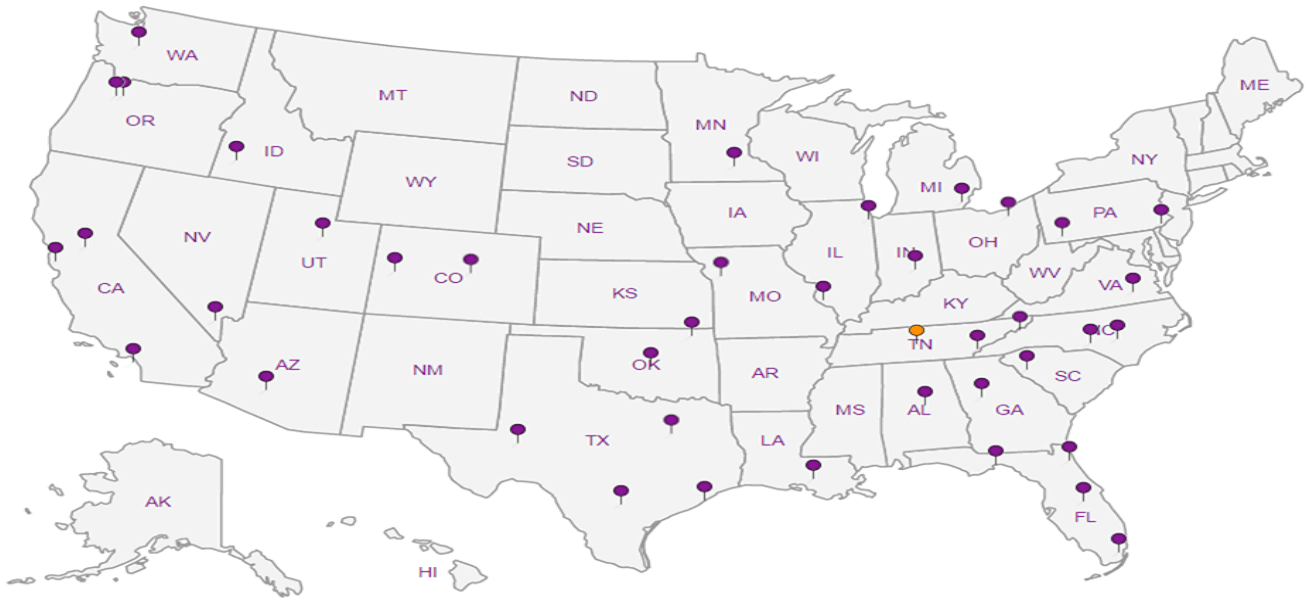
Third Party Federal Accreditations

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

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

Our Locations

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



Analysis Request of Chain of Custody Record

Page : 1 of 4

Tetra Tech, Inc.

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

U294257

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	Golden Spur to Wilder Release	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-01867
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	John Thurston
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE: YEAR: 2020	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B / BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD	
	SSW-1	12/7/2020	8:30 AM		X				X			1	N	X		X												X						-01
	WSW-1	12/7/2020	8:41 AM		X				X			1	N	X		X												X						-02
	WSW-2	12/7/2020	10:09 AM		X				X			1	N	X		X												X						-03
	WSW-3	12/7/2020	10:21 AM		X				X			1	N	X		X												X						-04
	WSW-4	12/7/2020	10:29 AM		X				X			1	N	X		X												X						-05
	WSW-5	12/7/2020	10:33 AM		X				X			1	N	X		X												X						-06
	WSW-6	12/7/2020	10:54 AM		X				X			1	N	X		X												X						-07
	WSW-7	12/7/2020	10:57 AM		X				X			1	N	X		X												X						-08
	WSW-8	12/7/2020	11:17 AM		X				X			1	N	X		X												X						-09
	WSW-9	12/7/2020	11:23 AM		X				X			1	N	X		X												X						-10

Relinquished by:	Date: 12/8/20 ~~11:30~~	Time: 11:30	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by: Date: 12/9 Time: 1000

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

8131 0130 6637

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C005

MPAS
104.4=72

RAD SCREEN: <0.5 mR/hr.

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

L1294257

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	Golden Spur to Wilder Release	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-01867
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	John Thurston
Comments:	COPTETRA Acctnum		

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2020)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL		PRESERVATIVE METHOD: HCL	HNO_3	ICE	NONE		# CONTAINERS	FILTERED (Y/N)	
	WSW-10	12/7/2020	11:44 AM		X				X			1	N	-11
	WSW-11	12/7/2020	1:05 PM		X				X			1	N	-12
	WSW-12	12/7/2020	1:11 PM		X				X			1	N	-13
	WSW-13	12/7/2020	1:16 PM		X				X			1	N	-14
	ESW-1	12/7/2020	1:22 PM		X				X			1	N	-15
	ESW-2	12/7/2020	1:29 PM		X				X			1	N	-16
	ESW-3	12/7/2020	1:33 PM		X				X			1	N	-17
	ESW-4	12/7/2020	1:40 PM		X				X			1	N	-18
	ESW-5	12/7/2020	1:44 PM		X				X			1	N	-19
	ESW-6	12/7/2020	1:48 PM		X				X			1	N	-20

ANALYSIS REQUEST (Circle or Specify Method No.)

SAMPLE IDENTIFICATION	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
WSW-10	X		X												X						
WSW-11	X		X												X						
WSW-12	X		X												X						
WSW-13	X		X												X						
ESW-1	X		X												X						
ESW-2	X		X												X						
ESW-3	X		X												X						
ESW-4	X		X												X						
ESW-5	X		X												X						
ESW-6	X		X												X						

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	12/8/20	11:30			
			[signature]	12/9	1000

LAB USE ONLY

Sample Temperature

REMARKS:

- [ ] Standard
- [x] RUSH: Same Day (24 hr.) 48 hr. 72 hr.
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

OK

(Circle) HAND DELIVERED (FEDEX) UPS Tracking #: ______

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MPAS 1.8+.4=2.2

RAD SCREEN: <0.5 mR/hr

Analysis Request of Chain of Custody Record

Page : 3 of 4

Tetra Tech, Inc.

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

L1294257

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	Golden Spur to Wilder Release	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-01867
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	John Thurston
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B / BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD	
		YEAR: 2020																																
	ESW-7	12/7/2020	14:01		X				X			1	N	X		X												X						21
	ESW-8	12/7/2020	14:11		X				X			1	N	X		X												X						22
	ESW-9	12/7/2020	14:15		X				X			1	N	X		X												X						23
	ESW-10	12/7/2020	14:19		X				X			1	N	X		X												X						24
	ESW-11	12/7/2020	14:30		X				X			1	N	X		X												X						25
	ESW-12	12/7/2020	14:33		X				X			1	N	X		X												X						26
	ESW-13	12/7/2020	14:38		X				X			1	N	X		X												X						27
	ESW-14	12/7/2020	14:42		X				X			1	N	X		X												X						28
	ESW-15	12/7/2020	14:47		X				X			1	N	X		X												X						29
	ESW-16	12/7/2020	14:58		X				X			1	N	X		X												X						30

Relinquished by:	Date: 12/8/20	Time: 11:30	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by: Date: 12/9 Time: 1000

ORIGINAL COPY

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

RAD SCREEN: <0.5 mR/hr

MPA3
10.14.22

Analysis Request of Chain of Custody Record

Page : 4 of 4

Tetra Tech, Inc.

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

L1294257

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	Golden Spur to Wilder Release	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-01867
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	John Thurston
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	TIME	MATRIX WATER	SOIL	PRESERVATIVE METHOD HCL	HNO_3	ICE	NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD	
	ESW-17	12/7/2020	15:11		X			X		1	N	X		X												X							-31
	ESW-18	12/7/2020	15:16		X			X		1	N	X		X												X							-32
	ESW-19	12/7/2020	15:19		X			X		1	N	X		X												X							-33
	NSW-1	12/7/2020	15:26		X			X		1	N	X		X												X							-34
	NSW-2	12/7/2020	15:30		X			X		1	N	X		X												X							-35
	FS-12 (2')	12/7/2020	15:33		X			X		1	N	X		X												X							-36
	FS-13 (2')	12/7/2020	15:35		X			X		1	N	X		X												X							-37

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	12/8/20	11:30			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by: [signature]	12/9	1000

ORIGINAL COPY

LAB USE ONLY

Sample Temperature

REMARKS:

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

(Circle) HAND DELIVERED (FEDEX) UPS Tracking #: ___________

04

NPAS
1.8+4=2.2

RAD SCREEN: <0.5 mR/hr .

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client: COPTETRA		4294257
Cooler Received/Opened On: 12/9/20	Temperature:	2.2 2.2
Received By: Lucas Green		
Signature:		

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

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

December 18, 2020

ConocoPhillips - Tetra Tech

Sample Delivery Group:	L1295431
Samples Received:	12/11/2020
Project Number:	212C-MD-01867
Description:	Golden Spur Wilder Release
Site:	LEA COUNTY, NEW MEXICO
Report To:	Christian Llull 901 West Wall Suite 100 Midland, TX 79701

Entire Report Reviewed By:

Chris McCord
Project Manager

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

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 5

Sr: Sample Results 6

- FS-8 (2') L1295431-01 6
- FS-9 (2') L1295431-02 7
- FS-11 (2') L1295431-03 8
- FS-22 (2') L1295431-04 9
- FS-23 (2') L1295431-05 10
- FS-24 (2') L1295431-06 11

Qc: Quality Control Summary 12

- Total Solids by Method 2540 G-2011 12
- Wet Chemistry by Method 300.0 13
- Volatile Organic Compounds (GC) by Method 8015D/GRO 14
- Volatile Organic Compounds (GC/MS) by Method 8260B 15
- Semi-Volatile Organic Compounds (GC) by Method 8015 17

Gl: Glossary of Terms 18

Al: Accreditations & Locations 19

Sc: Sample Chain of Custody 20

FS-8 (2') L1295431-01 Solid

Collected by: Adrian Garcia | Collected date/time: 12/08/20 12:00 | Received date/time: 12/11/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1593340	1	12/17/20 08:21	12/17/20 08:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1593006	1	12/16/20 18:30	12/17/20 01:36	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1593002	1	12/12/20 18:15	12/17/20 02:22	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1591261	1	12/12/20 18:15	12/14/20 07:17	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1593177	1	12/16/20 23:00	12/17/20 13:59	TH	Mt. Juliet, TN

FS-9 (2') L1295431-02 Solid

Collected by: Adrian Garcia | Collected date/time: 12/08/20 13:00 | Received date/time: 12/11/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1593340	1	12/17/20 08:21	12/17/20 08:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1593006	1	12/16/20 18:30	12/17/20 01:45	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1593002	1	12/12/20 18:15	12/17/20 02:44	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1591270	1	12/12/20 18:15	12/14/20 04:01	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1593177	1	12/16/20 23:00	12/17/20 14:12	TH	Mt. Juliet, TN

FS-11 (2') L1295431-03 Solid

Collected by: Adrian Garcia | Collected date/time: 12/08/20 14:00 | Received date/time: 12/11/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1593340	1	12/17/20 08:21	12/17/20 08:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1593006	1	12/16/20 18:30	12/17/20 02:14	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1593002	1	12/12/20 18:15	12/17/20 03:06	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1591270	1	12/12/20 18:15	12/14/20 04:20	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1593177	1	12/16/20 23:00	12/17/20 14:25	TH	Mt. Juliet, TN

FS-22 (2') L1295431-04 Solid

Collected by: Adrian Garcia | Collected date/time: 12/08/20 15:00 | Received date/time: 12/11/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1593340	1	12/17/20 08:21	12/17/20 08:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1593006	1	12/16/20 18:30	12/17/20 02:23	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1593002	1	12/12/20 18:15	12/17/20 03:28	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1591270	1	12/12/20 18:15	12/14/20 04:39	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1593177	1	12/16/20 23:00	12/17/20 14:37	TH	Mt. Juliet, TN

FS-23 (2') L1295431-05 Solid

Collected by: Adrian Garcia | Collected date/time: 12/08/20 15:30 | Received date/time: 12/11/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1593340	1	12/17/20 08:21	12/17/20 08:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1593006	1	12/16/20 18:30	12/17/20 02:33	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1593002	1	12/12/20 18:15	12/17/20 03:51	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1591270	1	12/12/20 18:15	12/14/20 04:58	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1593177	1	12/16/20 23:00	12/17/20 14:50	TH	Mt. Juliet, TN

FS-24 (2') L1295431-06 Solid

Collected by: Adrian Garcia
Collected date/time: 12/08/20 16:00
Received date/time: 12/11/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1593340	1	12/17/20 08:21	12/17/20 08:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1593006	1	12/16/20 18:30	12/17/20 02:43	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1593002	1	12/12/20 18:15	12/17/20 04:14	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1591270	1	12/12/20 18:15	12/14/20 05:16	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1593177	1	12/16/20 23:00	12/17/20 15:03	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.

Chris McCord
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.6		1	12/17/2020 08:36	WG1593340

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	25.8		9.52	20.7	1	12/17/2020 01:36	WG1593006

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0225	0.104	1	12/17/2020 02:22	WG1593002
(S) a,a,a-Trifluorotoluene(FID)	*95.4*			*77.0-120*		*12/17/2020 02:22*	WG1593002

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000500	0.00107	1	12/14/2020 07:17	WG1591261
Toluene	U		0.00139	0.00535	1	12/14/2020 07:17	WG1591261
Ethylbenzene	U		0.000789	0.00268	1	12/14/2020 07:17	WG1591261
Total Xylenes	U		0.000942	0.00696	1	12/14/2020 07:17	WG1591261
(S) Toluene-d8	*115*			*75.0-131*		*12/14/2020 07:17*	WG1591261
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*12/14/2020 07:17*	WG1591261
(S) 1,2-Dichloroethane-d4	*84.9*			*70.0-130*		*12/14/2020 07:17*	WG1591261

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		1.67	4.14	1	12/17/2020 13:59	WG1593177
C28-C40 Oil Range	8.47	B	0.284	4.14	1	12/17/2020 13:59	WG1593177
(S) o-Terphenyl	*85.4*			*18.0-148*		*12/17/2020 13:59*	WG1593177

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.5		1	12/17/2020 08:36	WG1593340

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.54	20.7	1	12/17/2020 01:45	WG1593006

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0225	0.104	1	12/17/2020 02:44	WG1593002
(S) a,a,a-Trifluorotoluene(FID)	*95.6*			*77.0-120*		*12/17/2020 02:44*	WG1593002

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		0.000501	0.00107	1	12/14/2020 04:01	WG1591270
Toluene	U		0.00139	0.00536	1	12/14/2020 04:01	WG1591270
Ethylbenzene	U		0.000791	0.00268	1	12/14/2020 04:01	WG1591270
Total Xylenes	U		0.000944	0.00697	1	12/14/2020 04:01	WG1591270
(S) Toluene-d8	*94.6*			*75.0-131*		*12/14/2020 04:01*	WG1591270
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*12/14/2020 04:01*	WG1591270
(S) 1,2-Dichloroethane-d4	*125*			*70.0-130*		*12/14/2020 04:01*	WG1591270

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.94	J	1.67	4.15	1	12/17/2020 14:12	WG1593177
C28-C40 Oil Range	7.41	B	0.284	4.15	1	12/17/2020 14:12	WG1593177
(S) o-Terphenyl	*82.5*			*18.0-148*		*12/17/2020 14:12*	WG1593177

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.8		1	12/17/2020 08:36	WG1593340

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.51	20.7	1	12/17/2020 02:14	WG1593006

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		0.0224	0.103	1	12/17/2020 03:06	WG1593002
(S) a,a,a-Trifluorotoluene(FID)	*95.3*			*77.0-120*		*12/17/2020 03:06*	WG1593002

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		0.000498	0.00107	1	12/14/2020 04:20	WG1591270
Toluene	U		0.00139	0.00533	1	12/14/2020 04:20	WG1591270
Ethylbenzene	U		0.000786	0.00267	1	12/14/2020 04:20	WG1591270
Total Xylenes	U		0.000939	0.00693	1	12/14/2020 04:20	WG1591270
(S) Toluene-d8	*95.1*			*75.0-131*		*12/14/2020 04:20*	WG1591270
(S) 4-Bromofluorobenzene	*97.9*			*67.0-138*		*12/14/2020 04:20*	WG1591270
(S) 1,2-Dichloroethane-d4	*130*			*70.0-130*		*12/14/2020 04:20*	WG1591270

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	4.13	1	12/17/2020 14:25	WG1593177
C28-C40 Oil Range	7.90	B	0.283	4.13	1	12/17/2020 14:25	WG1593177
(S) o-Terphenyl	*87.3*			*18.0-148*		*12/17/2020 14:25*	WG1593177

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.8		1	12/17/2020 08:36	WG1593340

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.50	20.7	1	12/17/2020 02:23	WG1593006

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		0.0224	0.103	1	12/17/2020 03:28	WG1593002
(S) a,a,a-Trifluorotoluene(FID)	*95.8*			*77.0-120*		*12/17/2020 03:28*	WG1593002

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		0.000498	0.00107	1	12/14/2020 04:39	WG1591270
Toluene	U		0.00139	0.00533	1	12/14/2020 04:39	WG1591270
Ethylbenzene	U		0.000786	0.00267	1	12/14/2020 04:39	WG1591270
Total Xylenes	U		0.000939	0.00693	1	12/14/2020 04:39	WG1591270
(S) Toluene-d8	*96.7*			*75.0-131*		*12/14/2020 04:39*	WG1591270
(S) 4-Bromofluorobenzene	*99.2*			*67.0-138*		*12/14/2020 04:39*	WG1591270
(S) 1,2-Dichloroethane-d4	*125*			*70.0-130*		*12/14/2020 04:39*	WG1591270

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	4.13	1	12/17/2020 14:37	WG1593177
C28-C40 Oil Range	7.19	B	0.283	4.13	1	12/17/2020 14:37	WG1593177
(S) o-Terphenyl	*83.1*			*18.0-148*		*12/17/2020 14:37*	WG1593177

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.7		1	12/17/2020 08:36	WG1593340

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.52	20.7	1	12/17/2020 02:33	WG1593006

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0225	0.103	1	12/17/2020 03:51	WG1593002
(S) a,a,a-Trifluorotoluene(FID)	*95.0*			*77.0-120*		*12/17/2020 03:51*	WG1593002

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000499	0.00107	1	12/14/2020 04:58	WG1591270
Toluene	U		0.00139	0.00535	1	12/14/2020 04:58	WG1591270
Ethylbenzene	U		0.000788	0.00267	1	12/14/2020 04:58	WG1591270
Total Xylenes	U		0.000941	0.00695	1	12/14/2020 04:58	WG1591270
(S) Toluene-d8	*96.3*			*75.0-131*		*12/14/2020 04:58*	WG1591270
(S) 4-Bromofluorobenzene	*98.9*			*67.0-138*		*12/14/2020 04:58*	WG1591270
(S) 1,2-Dichloroethane-d4	*128*			*70.0-130*		*12/14/2020 04:58*	WG1591270

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		1.67	4.14	1	12/17/2020 14:50	WG1593177
C28-C40 Oil Range	5.44	B	0.283	4.14	1	12/17/2020 14:50	WG1593177
(S) o-Terphenyl	*88.8*			*18.0-148*		*12/17/2020 14:50*	WG1593177

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.7		1	12/17/2020 08:36	WG1593340

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.52	20.7	1	12/17/2020 02:43	WG1593006

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		0.0224	0.103	1	12/17/2020 04:14	WG1593002
(S) a,a,a-Trifluorotoluene(FID)	*95.9*			*77.0-120*		*12/17/2020 04:14*	WG1593002

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000499	0.00107	1	12/14/2020 05:16	WG1591270
Toluene	U		0.00139	0.00534	1	12/14/2020 05:16	WG1591270
Ethylbenzene	U		0.000788	0.00267	1	12/14/2020 05:16	WG1591270
Total Xylenes	U		0.000941	0.00695	1	12/14/2020 05:16	WG1591270
(S) Toluene-d8	*101*			*75.0-131*		*12/14/2020 05:16*	WG1591270
(S) 4-Bromofluorobenzene	*97.0*			*67.0-138*		*12/14/2020 05:16*	WG1591270
(S) 1,2-Dichloroethane-d4	*123*			*70.0-130*		*12/14/2020 05:16*	WG1591270

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		1.67	4.14	1	12/17/2020 15:03	WG1593177
C28-C40 Oil Range	9.11	B	0.283	4.14	1	12/17/2020 15:03	WG1593177
(S) o-Terphenyl	*86.3*			*18.0-148*		*12/17/2020 15:03*	WG1593177

Method Blank (MB)

(MB) R3604730-1 12/17/20 08:36

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

L1295156-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1295156-12 12/17/20 08:36 • (DUP) R3604730-3 12/17/20 08:36

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	74.8	75.3	1	0.765		10

Laboratory Control Sample (LCS)

(LCS) R3604730-2 12/17/20 08:36

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	49.7	99.3	85.0-115	

Method Blank (MB)

(MB) R3604475-1 12/16/20 21:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1294734-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1294734-01 12/16/20 22:45 • (DUP) R3604475-3 12/16/20 22:54

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	44.4	44.4	1	0.169		20

L1295431-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1295431-06 12/17/20 02:43 • (DUP) R3604475-6 12/17/20 02:52

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3604475-2 12/16/20 21:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	199	99.6	90.0-110	

L1295101-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1295101-04 12/17/20 00:39 • (MS) R3604475-4 12/17/20 00:48 • (MSD) R3604475-5 12/17/20 00:58

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	581	20.7	606	613	101	102	1	80.0-120			1.13	20

Method Blank (MB)

(MB) R3604559-2 12/17/20 01:26

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)	*96.6*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3604559-1 12/17/20 00:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.14	112	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*99.4*	*77.0-120*	

L1295156-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1295156-01 12/17/20 04:59 • (MS) R3604559-3 12/17/20 10:16 • (MSD) R3604559-4 12/17/20 10:39

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	223	U	238	235	107	105	34.5	10.0-151			1.49	28
(S) a,a,a-Trifluorotoluene(FID)					*102*	*102*		*77.0-120*				

Method Blank (MB)

(MB) R3603478-2 12/14/20 00:54

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*119*			*75.0-131*
(S) 4-Bromofluorobenzene	*96.9*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*83.7*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3603478-1 12/13/20 23:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.124	99.2	70.0-123	
Ethylbenzene	0.125	0.137	110	74.0-126	
Toluene	0.125	0.120	96.0	75.0-121	
Xylenes, Total	0.375	0.414	110	72.0-127	
(S) Toluene-d8			*108*	*75.0-131*	
(S) 4-Bromofluorobenzene			*109*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*95.3*	*70.0-130*	

Method Blank (MB)

(MB) R3604431-2 12/14/20 03:07

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*94.8*			*75.0-131*
(S) 4-Bromofluorobenzene	*105*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*127*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3604431-1 12/14/20 00:45

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.124	99.2	70.0-123	
Ethylbenzene	0.125	0.125	100	74.0-126	
Toluene	0.125	0.123	98.4	75.0-121	
Xylenes, Total	0.375	0.361	96.3	72.0-127	
(S) Toluene-d8			*98.2*	*75.0-131*	
(S) 4-Bromofluorobenzene			*98.1*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*128*	*70.0-130*	

Method Blank (MB)

(MB) R3604901-1 12/17/20 13:34

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	1.58	J	0.274	4.00
(S) o-Terphenyl	*84.4*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3604901-2 12/17/20 13:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	48.3	96.6	50.0-150	
(S) o-Terphenyl			*104*	*18.0-148*	

Guide to Reading and Understanding Your Laboratory Report

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

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

ACCREDITATIONS & LOCATIONS

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	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	KY90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA

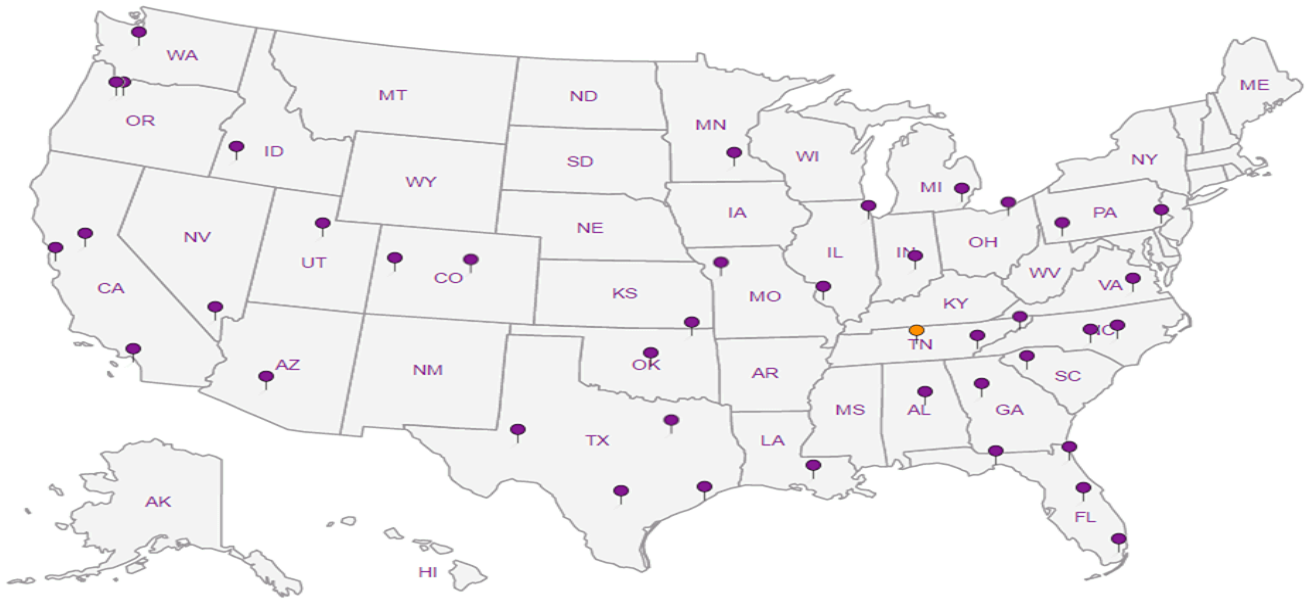
Third Party Federal Accreditations

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

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

Our Locations

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



Analysis Request of Chain of Custody Record

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Page : 1 of 1

Tetra Tech, Inc.

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

L1295431

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	Golden Spur to Wilder Release	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: **(county, state)**	Lea County, New Mexico	**Project #:**	212C-MD-01867
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Adrian Garcia
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
-01	FS-8 (2')	12/8/2020	12:00		X			X		1	N	X		X												X						
-02	FS-9 (2')	12/8/2020	13:00		X			X		1	N	X		X												X						
-03	FS-11 (2')	12/8/2020	14:00		X			X		1	N	X		X												X						
-04	FS-22 (2')	12/8/2020	15:00		X			X		1	N	X		X												X						
-05	FS-23 (2')	12/8/2020	15:30		X			X		1	N	X		X												X						
-06	FS-24 (2')	12/8/2020	16:00		X			X		1	N	X		X												X						

Relinquished by:	Date: 12.10.20	Time: 15:45	Received by: Date: 12.10.20 Time: 15:45
Relinquished by:	Date: 12.10.20	Time: 16:30	Received by: Date: 12.10.20 Time: 16:30
Relinquished by:	Date:	Time:	Received by: Date: 12/11/20 Time: 800

ORIGINAL COPY

Sample Receipt Checklist

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

LAB USE ONLY

Sample Temperature

REMARKS:

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

NPIS 1.4-5=.9

RAD SCREEN: <0.5 mR/hr

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

December 16, 2020

ConocoPhillips - Tetra Tech

Sample Delivery Group:	L1295982
Samples Received:	12/12/2020
Project Number:	212C-MD-01867
Description:	Golden Spur Wilder Release
Site:	LEA COUNTY, NEW MEXICO
Report To:	Christian Llull 901 West Wall Suite 100 Midland, TX 79701

Entire Report Reviewed By:

Chris McCord
Project Manager

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

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 6

Sr: Sample Results 7

FS-4 (2') L1295982-01 7

FS-5 (2') L1295982-02 8

FS-6 (2') L1295982-03 9

FS-7 (2') L1295982-04 10

FS-10 (2') L1295982-05 11

FS-19 L1295982-06 12

FS-20 (2') L1295982-07 13

FS-35 L1295982-08 14

FS-36 L1295982-09 15

FS-37 L1295982-10 16

FS-21 (2') L1295982-11 17

Qc: Quality Control Summary 18

Total Solids by Method 2540 G-2011 18

Wet Chemistry by Method 300.0 21

Volatile Organic Compounds (GC) by Method 8015D/GRO 22

Volatile Organic Compounds (GC/MS) by Method 8260B 24

Semi-Volatile Organic Compounds (GC) by Method 8015 26

Gl: Glossary of Terms 27

Al: Accreditations & Locations 28

Sc: Sample Chain of Custody 29

FS-4 (2') L1295982-01 Solid

Collected by: John Thurston | Collected date/time: 12/11/20 08:30 | Received date/time: 12/12/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1591642	1	12/15/20 16:02	12/15/20 16:13	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1592031	1	12/15/20 21:47	12/16/20 07:17	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1592817	1	12/12/20 16:41	12/16/20 13:01	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1591043	1	12/12/20 16:41	12/13/20 03:04	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1591051	1	12/14/20 17:06	12/15/20 01:24	JN	Mt. Juliet, TN

FS-5 (2') L1295982-02 Solid

Collected by: John Thurston | Collected date/time: 12/11/20 08:41 | Received date/time: 12/12/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1591642	1	12/15/20 16:02	12/15/20 16:13	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1592031	1	12/15/20 21:47	12/16/20 07:26	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1592278	1	12/12/20 16:41	12/15/20 17:55	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1591043	1	12/12/20 16:41	12/13/20 03:23	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1591051	1	12/14/20 17:06	12/15/20 01:37	JN	Mt. Juliet, TN

FS-6 (2') L1295982-03 Solid

Collected by: John Thurston | Collected date/time: 12/11/20 08:45 | Received date/time: 12/12/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1591642	1	12/15/20 16:02	12/15/20 16:13	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1592031	1	12/15/20 21:47	12/16/20 07:55	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1592278	1	12/12/20 16:41	12/15/20 18:18	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1591043	1	12/12/20 16:41	12/13/20 03:42	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1591051	1	12/14/20 17:06	12/15/20 01:50	JN	Mt. Juliet, TN

FS-7 (2') L1295982-04 Solid

Collected by: John Thurston | Collected date/time: 12/11/20 08:55 | Received date/time: 12/12/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1591642	1	12/15/20 16:02	12/15/20 16:13	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1592031	1	12/15/20 21:47	12/16/20 08:04	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1592278	1	12/12/20 16:41	12/15/20 18:41	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1591043	1	12/12/20 16:41	12/13/20 04:01	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1591051	1	12/14/20 17:06	12/15/20 02:02	JN	Mt. Juliet, TN

FS-10 (2') L1295982-05 Solid

Collected by: John Thurston | Collected date/time: 12/11/20 08:59 | Received date/time: 12/12/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1591642	1	12/15/20 16:02	12/15/20 16:13	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1592031	1	12/15/20 21:47	12/16/20 08:14	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1592278	1	12/12/20 16:41	12/15/20 19:04	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1591043	1	12/12/20 16:41	12/13/20 04:20	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1591051	1	12/14/20 17:06	12/15/20 02:15	JN	Mt. Juliet, TN

FS-19 L1295982-06 Solid

Collected by: John Thurston | Collected date/time: 12/11/20 09:35 | Received date/time: 12/12/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1591676	1	12/15/20 12:49	12/15/20 13:00	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1592031	10	12/15/20 21:47	12/16/20 08:23	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1592278	1	12/12/20 16:41	12/15/20 19:27	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1591043	1	12/12/20 16:41	12/13/20 04:39	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1591051	1	12/14/20 17:06	12/15/20 02:27	JN	Mt. Juliet, TN

FS-20 (2') L1295982-07 Solid

Collected by: John Thurston | Collected date/time: 12/11/20 09:38 | Received date/time: 12/12/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1591676	1	12/15/20 12:49	12/15/20 13:00	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1592031	1	12/15/20 21:47	12/16/20 08:52	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1592278	1	12/12/20 16:41	12/15/20 20:02	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1591043	1	12/12/20 16:41	12/13/20 04:58	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1591051	1	12/14/20 17:06	12/15/20 02:40	JN	Mt. Juliet, TN

FS-35 L1295982-08 Solid

Collected by: John Thurston | Collected date/time: 12/11/20 09:41 | Received date/time: 12/12/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1591676	1	12/15/20 12:49	12/15/20 13:00	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1592031	10	12/15/20 21:47	12/16/20 09:01	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1592278	1.01	12/12/20 16:41	12/15/20 20:25	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1591043	1	12/12/20 16:41	12/13/20 05:17	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1591051	1	12/14/20 17:06	12/15/20 02:53	JN	Mt. Juliet, TN

FS-36 L1295982-09 Solid

Collected by: John Thurston | Collected date/time: 12/11/20 09:46 | Received date/time: 12/12/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1591676	1	12/15/20 12:49	12/15/20 13:00	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1592031	10	12/15/20 21:47	12/16/20 09:11	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1592278	1	12/12/20 16:41	12/15/20 20:48	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1591043	1	12/12/20 16:41	12/13/20 05:36	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1591051	1	12/14/20 17:06	12/15/20 03:05	JN	Mt. Juliet, TN

FS-37 L1295982-10 Solid

Collected by: John Thurston | Collected date/time: 12/11/20 09:50 | Received date/time: 12/12/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1592167	1	12/16/20 05:13	12/16/20 05:19	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1592031	10	12/15/20 21:47	12/16/20 09:20	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1592278	1	12/12/20 16:41	12/15/20 21:11	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1591043	1	12/12/20 16:41	12/13/20 05:55	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1591051	1	12/14/20 17:06	12/15/20 03:18	JN	Mt. Juliet, TN

FS-21 (2') L1295982-11 Solid

Collected by: John Thurston
Collected date/time: 12/11/20 00:00
Received date/time: 12/12/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1592167	1	12/16/20 05:13	12/16/20 05:19	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1592031	10	12/15/20 21:47	12/16/20 09:30	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1592278	1	12/13/20 09:03	12/15/20 21:35	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1591091	1	12/13/20 09:03	12/13/20 12:30	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1591051	1	12/14/20 17:06	12/15/20 03:31	JN	Mt. Juliet, TN

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

Chris McCord
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.5		1	12/15/2020 16:13	WG1591642

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	202		9.54	20.7	1	12/16/2020 07:17	WG1592031

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0225	0.104	1	12/16/2020 13:01	WG1592817
(S) a,a,a-Trifluorotoluene(FID)	*92.2*			*77.0-120*		*12/16/2020 13:01*	WG1592817

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	0.000510	J	0.000501	0.00107	1	12/13/2020 03:04	WG1591043
Toluene	U		0.00139	0.00536	1	12/13/2020 03:04	WG1591043
Ethylbenzene	0.000858	J	0.000791	0.00268	1	12/13/2020 03:04	WG1591043
Total Xylenes	0.00177	J	0.000944	0.00697	1	12/13/2020 03:04	WG1591043
(S) Toluene-d8	*107*			*75.0-131*		*12/13/2020 03:04*	WG1591043
(S) 4-Bromofluorobenzene	*98.0*			*67.0-138*		*12/13/2020 03:04*	WG1591043
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*12/13/2020 03:04*	WG1591043

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.78	J	1.67	4.15	1	12/15/2020 01:24	WG1591051
C28-C40 Oil Range	10.6		0.284	4.15	1	12/15/2020 01:24	WG1591051
(S) o-Terphenyl	*67.6*			*18.0-148*		*12/15/2020 01:24*	WG1591051

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.5		1	12/15/2020 16:13	WG1591642

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	72.4		9.84	21.4	1	12/16/2020 07:26	WG1592031

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	0.0713	B J	0.0232	0.107	1	12/15/2020 17:55	WG1592278
(S) a,a,a-Trifluorotoluene(FID)	*94.3*			*77.0-120*		*12/15/2020 17:55*	WG1592278

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		0.000532	0.00114	1	12/13/2020 03:23	WG1591043
Toluene	U		0.00148	0.00570	1	12/13/2020 03:23	WG1591043
Ethylbenzene	U		0.000840	0.00285	1	12/13/2020 03:23	WG1591043
Total Xylenes	0.00105	J	0.00100	0.00741	1	12/13/2020 03:23	WG1591043
(S) Toluene-d8	*104*			*75.0-131*		*12/13/2020 03:23*	WG1591043
(S) 4-Bromofluorobenzene	*98.7*			*67.0-138*		*12/13/2020 03:23*	WG1591043
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*12/13/2020 03:23*	WG1591043

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.72	4.28	1	12/15/2020 01:37	WG1591051
C28-C40 Oil Range	6.90		0.293	4.28	1	12/15/2020 01:37	WG1591051
(S) o-Terphenyl	*64.3*			*18.0-148*		*12/15/2020 01:37*	WG1591051

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.3		1	12/15/2020 16:13	WG1591642

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	348		9.66	21.0	1	12/16/2020 07:55	WG1592031

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	0.0694	B J	0.0228	0.105	1	12/15/2020 18:18	WG1592278
(S) a,a,a-Trifluorotoluene(FID)	*94.2*			*77.0-120*		*12/15/2020 18:18*	WG1592278

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		0.000513	0.00110	1	12/13/2020 03:42	WG1591043
Toluene	U		0.00143	0.00550	1	12/13/2020 03:42	WG1591043
Ethylbenzene	U		0.000810	0.00275	1	12/13/2020 03:42	WG1591043
Total Xylenes	U		0.000967	0.00714	1	12/13/2020 03:42	WG1591043
(S) Toluene-d8	*104*			*75.0-131*		*12/13/2020 03:42*	WG1591043
(S) 4-Bromofluorobenzene	*96.5*			*67.0-138*		*12/13/2020 03:42*	WG1591043
(S) 1,2-Dichloroethane-d4	*121*			*70.0-130*		*12/13/2020 03:42*	WG1591043

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	12/15/2020 01:50	WG1591051
C28-C40 Oil Range	5.49		0.288	4.20	1	12/15/2020 01:50	WG1591051
(S) o-Terphenyl	*67.2*			*18.0-148*		*12/15/2020 01:50*	WG1591051

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.2		1	12/15/2020 16:13	WG1591642

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	62.3		9.47	20.6	1	12/16/2020 08:04	WG1592031

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	0.0790	B J	0.0223	0.103	1	12/15/2020 18:41	WG1592278
(S) a,a,a-Trifluorotoluene(FID)	*93.0*			*77.0-120*		*12/15/2020 18:41*	WG1592278

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		0.000494	0.00106	1	12/13/2020 04:01	WG1591043
Toluene	U		0.00138	0.00529	1	12/13/2020 04:01	WG1591043
Ethylbenzene	U		0.000780	0.00265	1	12/13/2020 04:01	WG1591043
Total Xylenes	U		0.000931	0.00688	1	12/13/2020 04:01	WG1591043
(S) Toluene-d8	*102*			*75.0-131*		*12/13/2020 04:01*	WG1591043
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*12/13/2020 04:01*	WG1591043
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*		*12/13/2020 04:01*	WG1591043

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.36		1.66	4.12	1	12/15/2020 02:02	WG1591051
C28-C40 Oil Range	11.3		0.282	4.12	1	12/15/2020 02:02	WG1591051
(S) o-Terphenyl	*70.1*			*18.0-148*		*12/15/2020 02:02*	WG1591051

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.8		1	12/15/2020 16:13	WG1591642

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	20.7		9.50	20.7	1	12/16/2020 08:14	WG1592031

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	0.0900	B J	0.0224	0.103	1	12/15/2020 19:04	WG1592278
(S) a,a,a-Trifluorotoluene(FID)	*93.3*			*77.0-120*		*12/15/2020 19:04*	WG1592278

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		0.000498	0.00107	1	12/13/2020 04:20	WG1591043
Toluene	U		0.00139	0.00533	1	12/13/2020 04:20	WG1591043
Ethylbenzene	U		0.000786	0.00267	1	12/13/2020 04:20	WG1591043
Total Xylenes	U		0.000938	0.00693	1	12/13/2020 04:20	WG1591043
(S) Toluene-d8	*103*			*75.0-131*		*12/13/2020 04:20*	WG1591043
(S) 4-Bromofluorobenzene	*98.1*			*67.0-138*		*12/13/2020 04:20*	WG1591043
(S) 1,2-Dichloroethane-d4	*119*			*70.0-130*		*12/13/2020 04:20*	WG1591043

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.76	J	1.66	4.13	1	12/15/2020 02:15	WG1591051
C28-C40 Oil Range	8.74		0.283	4.13	1	12/15/2020 02:15	WG1591051
(S) o-Terphenyl	*70.4*			*18.0-148*		*12/15/2020 02:15*	WG1591051

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.3		1	12/15/2020 13:00	WG1591676

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	4970		102	221	10	12/16/2020 08:23	WG1592031

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	0.0519	B J	0.0240	0.111	1	12/15/2020 19:27	WG1592278
(S) a,a,a-Trifluorotoluene(FID)	*93.5*			*77.0-120*		*12/15/2020 19:27*	WG1592278

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		0.000567	0.00121	1	12/13/2020 04:39	WG1591043
Toluene	U		0.00158	0.00607	1	12/13/2020 04:39	WG1591043
Ethylbenzene	U		0.000895	0.00304	1	12/13/2020 04:39	WG1591043
Total Xylenes	U		0.00107	0.00789	1	12/13/2020 04:39	WG1591043
(S) Toluene-d8	*102*			*75.0-131*		*12/13/2020 04:39*	WG1591043
(S) 4-Bromofluorobenzene	*96.3*			*67.0-138*		*12/13/2020 04:39*	WG1591043
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*		*12/13/2020 04:39*	WG1591043

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.04	J	1.78	4.43	1	12/15/2020 02:27	WG1591051
C28-C40 Oil Range	5.38		0.303	4.43	1	12/15/2020 02:27	WG1591051
(S) o-Terphenyl	*79.6*			*18.0-148*		*12/15/2020 02:27*	WG1591051

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.7		1	12/15/2020 13:00	WG1591676

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	15.6	J	9.51	20.7	1	12/16/2020 08:52	WG1592031

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	0.0786	B J	0.0224	0.103	1	12/15/2020 20:02	WG1592278
(S) a,a,a-Trifluorotoluene(FID)	*91.4*			*77.0-120*		*12/15/2020 20:02*	WG1592278

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000499	0.00107	1	12/13/2020 04:58	WG1591043
Toluene	U		0.00139	0.00534	1	12/13/2020 04:58	WG1591043
Ethylbenzene	U		0.000787	0.00267	1	12/13/2020 04:58	WG1591043
Total Xylenes	U		0.000940	0.00694	1	12/13/2020 04:58	WG1591043
(S) Toluene-d8	*107*			*75.0-131*		*12/13/2020 04:58*	WG1591043
(S) 4-Bromofluorobenzene	*93.8*			*67.0-138*		*12/13/2020 04:58*	WG1591043
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*12/13/2020 04:58*	WG1591043

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.66	4.14	1	12/15/2020 02:40	WG1591051
C28-C40 Oil Range	5.99		0.283	4.14	1	12/15/2020 02:40	WG1591051
(S) o-Terphenyl	*76.4*			*18.0-148*		*12/15/2020 02:40*	WG1591051

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.7		1	12/15/2020 13:00	WG1591676

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	4530		100	218	10	12/16/2020 09:01	WG1592031

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	0.0647	B J	0.0239	0.110	1.01	12/15/2020 20:25	WG1592278
(S) a,a,a-Trifluorotoluene(FID)	*93.7*			*77.0-120*		*12/15/2020 20:25*	WG1592278

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	0.000620	J	0.000552	0.00118	1	12/13/2020 05:17	WG1591043
Toluene	U		0.00154	0.00591	1	12/13/2020 05:17	WG1591043
Ethylbenzene	U		0.000871	0.00295	1	12/13/2020 05:17	WG1591043
Total Xylenes	U		0.00104	0.00768	1	12/13/2020 05:17	WG1591043
(S) Toluene-d8	*105*			*75.0-131*		*12/13/2020 05:17*	WG1591043
(S) 4-Bromofluorobenzene	*97.7*			*67.0-138*		*12/13/2020 05:17*	WG1591043
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*12/13/2020 05:17*	WG1591043

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		1.76	4.36	1	12/15/2020 02:53	WG1591051
C28-C40 Oil Range	4.86		0.299	4.36	1	12/15/2020 02:53	WG1591051
(S) o-Terphenyl	*78.8*			*18.0-148*		*12/15/2020 02:53*	WG1591051

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

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.1		1	12/15/2020 13:00	WG1591676

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	6190		103	224	10	12/16/2020 09:11	WG1592031

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	0.0507	B J	0.0243	0.112	1	12/15/2020 20:48	WG1592278
(S) a,a,a-Trifluorotoluene(FID)	*93.6*			*77.0-120*		*12/15/2020 20:48*	WG1592278

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		0.000581	0.00124	1	12/13/2020 05:36	WG1591043
Toluene	U		0.00162	0.00622	1	12/13/2020 05:36	WG1591043
Ethylbenzene	U		0.000917	0.00311	1	12/13/2020 05:36	WG1591043
Total Xylenes	U		0.00110	0.00809	1	12/13/2020 05:36	WG1591043
(S) Toluene-d8	*102*			*75.0-131*		*12/13/2020 05:36*	WG1591043
(S) 4-Bromofluorobenzene	*96.9*			*67.0-138*		*12/13/2020 05:36*	WG1591043
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*		*12/13/2020 05:36*	WG1591043

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.61	J	1.81	4.49	1	12/15/2020 03:05	WG1591051
C28-C40 Oil Range	5.61		0.307	4.49	1	12/15/2020 03:05	WG1591051
(S) o-Terphenyl	*79.1*			*18.0-148*		*12/15/2020 03:05*	WG1591051

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.4		1	12/16/2020 05:19	WG1592167

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	2550		99.6	216	10	12/16/2020 09:20	WG1592031

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	0.0502	B J	0.0235	0.108	1	12/15/2020 21:11	WG1592278
(S) a,a,a-Trifluorotoluene(FID)	*93.1*			*77.0-120*		*12/15/2020 21:11*	WG1592278

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		0.000544	0.00116	1	12/13/2020 05:55	WG1591043
Toluene	U		0.00151	0.00582	1	12/13/2020 05:55	WG1591043
Ethylbenzene	U		0.000858	0.00291	1	12/13/2020 05:55	WG1591043
Total Xylenes	U		0.00102	0.00757	1	12/13/2020 05:55	WG1591043
(S) Toluene-d8	*103*			*75.0-131*		*12/13/2020 05:55*	WG1591043
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*12/13/2020 05:55*	WG1591043
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*		*12/13/2020 05:55*	WG1591043

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.74	4.33	1	12/15/2020 03:18	WG1591051
C28-C40 Oil Range	3.00	J	0.297	4.33	1	12/15/2020 03:18	WG1591051
(S) o-Terphenyl	*73.2*			*18.0-148*		*12/15/2020 03:18*	WG1591051

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.5		1	12/16/2020 05:19	WG1592167

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	3450		99.4	216	10	12/16/2020 09:30	WG1592031

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	0.0540	B J	0.0235	0.108	1	12/15/2020 21:35	WG1592278
(S) a,a,a-Trifluorotoluene(FID)	*92.9*			*77.0-120*		*12/15/2020 21:35*	WG1592278

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		0.000542	0.00116	1	12/13/2020 12:30	WG1591091
Toluene	U		0.00151	0.00581	1	12/13/2020 12:30	WG1591091
Ethylbenzene	U		0.000856	0.00290	1	12/13/2020 12:30	WG1591091
Total Xylenes	U		0.00102	0.00755	1	12/13/2020 12:30	WG1591091
(S) Toluene-d8	*98.5*			*75.0-131*		*12/13/2020 12:30*	WG1591091
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*12/13/2020 12:30*	WG1591091
(S) 1,2-Dichloroethane-d4	*90.9*			*70.0-130*		*12/13/2020 12:30*	WG1591091

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.39		1.74	4.32	1	12/15/2020 03:31	WG1591051
C28-C40 Oil Range	17.0		0.296	4.32	1	12/15/2020 03:31	WG1591051
(S) o-Terphenyl	*76.1*			*18.0-148*		*12/15/2020 03:31*	WG1591051

Method Blank (MB)

(MB) R3604083-1 12/15/20 16:13

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

L1295919-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1295919-02 12/15/20 16:13 • (DUP) R3604083-3 12/15/20 16:13

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	78.8	76.6	1	2.86		10

Laboratory Control Sample (LCS)

(LCS) R3604083-2 12/15/20 16:13

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.1	100	85.0-115	

Method Blank (MB)

(MB) R3603948-1 12/15/20 13:00

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

L1293210-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1293210-14 12/15/20 13:00 • (DUP) R3603948-3 12/15/20 13:00

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	86.6	86.6	1	0.00485		10

Laboratory Control Sample (LCS)

(LCS) R3603948-2 12/15/20 13:00

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.1	100	85.0-115	

Method Blank (MB)

(MB) R3604194-1 12/16/20 05:19

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

L1292098-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1292098-12 12/16/20 05:19 • (DUP) R3604194-3 12/16/20 05:19

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	83.0	82.7	1	0.310		10

Laboratory Control Sample (LCS)

(LCS) R3604194-2 12/16/20 05:19

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

Method Blank (MB)

(MB) R3603971-1 12/16/20 05:03

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1295811-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1295811-01 12/16/20 05:22 • (DUP) R3603971-3 12/16/20 05:32

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		20

L1295982-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1295982-11 12/16/20 09:30 • (DUP) R3603971-6 12/16/20 09:39

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	3450	3400	10	1.57		20

Laboratory Control Sample (LCS)

(LCS) R3603971-2 12/16/20 05:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	203	101	90.0-110	

L1295982-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1295982-02 12/16/20 07:26 • (MS) R3603971-4 12/16/20 07:36 • (MSD) R3603971-5 12/16/20 07:45

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	535	72.4	617	613	102	101	1	80.0-120			0.729	20

Method Blank (MB)

(MB) R3603989-2 12/15/20 16:22

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0882	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*96.9*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3603989-1 12/15/20 14:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.54	101	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*104*	*77.0-120*	

L1294386-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1294386-02 12/15/20 21:58 • (MS) R3603989-3 12/16/20 01:31 • (MSD) R3603989-4 12/16/20 02:16

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	106	0.835	109	114	102	107	25	10.0-151			4.48	28
(S) a,a,a-Trifluorotoluene(FID)					*106*	*107*		*77.0-120*				

Method Blank (MB)

(MB) R3604146-2 12/16/20 12:20

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)	*96.3*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3604146-1 12/16/20 11:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.14	93.5	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*104*	*77.0-120*	

Method Blank (MB)

(MB) R3603934-2 12/13/20 02:03

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*103*			*75.0-131*
(S) 4-Bromofluorobenzene	*98.4*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*121*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3603934-1 12/13/20 01:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.127	102	70.0-123	
Ethylbenzene	0.125	0.120	96.0	74.0-126	
Toluene	0.125	0.114	91.2	75.0-121	
Xylenes, Total	0.375	0.350	93.3	72.0-127	
(S) Toluene-d8			*101*	*75.0-131*	
(S) 4-Bromofluorobenzene			*96.6*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*128*	*70.0-130*	

Method Blank (MB)

(MB) R3603109-2 12/13/20 08:05

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*97.4*			*75.0-131*
(S) 4-Bromofluorobenzene	*105*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*91.6*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3603109-1 12/13/20 07:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.130	104	70.0-123	
Ethylbenzene	0.125	0.118	94.4	74.0-126	
Toluene	0.125	0.113	90.4	75.0-121	
Xylenes, Total	0.375	0.350	93.3	72.0-127	
(S) Toluene-d8			*95.7*	*75.0-131*	
(S) 4-Bromofluorobenzene			*103*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*92.8*	*70.0-130*	

L1296022-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1296022-01 12/13/20 14:53 • (MS) R3603109-3 12/13/20 17:15 • (MSD) R3603109-4 12/13/20 17:36

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	U	0.128	0.0789	102	63.1	1	10.0-149		J3	47.5	37
Ethylbenzene	0.125	U	0.118	0.0718	94.4	57.4	1	10.0-160		J3	48.7	38
Toluene	0.125	U	0.110	0.0694	88.0	55.5	1	10.0-156		J3	45.3	38
Xylenes, Total	0.375	U	0.347	0.221	92.5	58.9	1	10.0-160		J3	44.4	38
(S) Toluene-d8					*95.9*	*96.8*		*75.0-131*				
(S) 4-Bromofluorobenzene					*104*	*105*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*89.3*	*90.1*		*70.0-130*				

Method Blank (MB)

(MB) R3603434-1 12/14/20 21:57

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	*79.1*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3603434-2 12/14/20 22:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	44.1	88.2	50.0-150	
(S) o-Terphenyl			*90.1*	*18.0-148*	

L1296059-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1296059-06 12/14/20 22:59 • (MS) R3603434-3 12/14/20 23:12 • (MSD) R3603434-4 12/14/20 23:24

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	49.0	3.42	45.2	39.8	85.3	74.4	1	50.0-150			12.7	20
(S) o-Terphenyl					*60.4*	*58.4*		*18.0-148*				

Guide to Reading and Understanding Your Laboratory Report

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

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.
J3	The associated batch QC was outside the established quality control range for precision.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

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

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	KY90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA

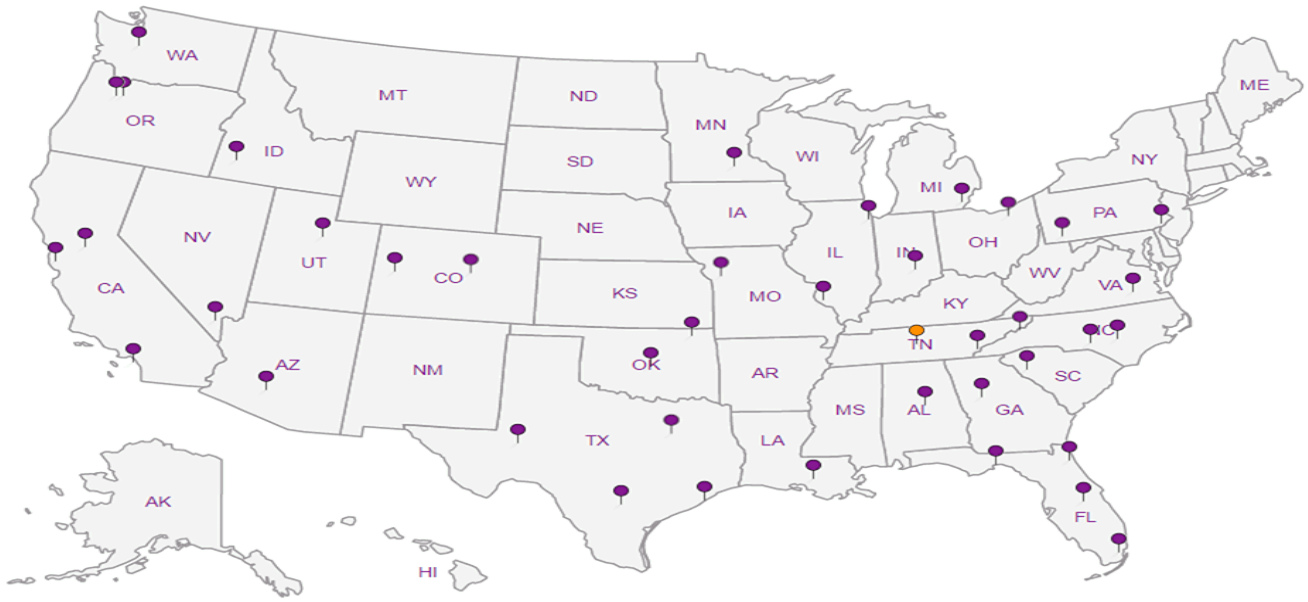
Third Party Federal Accreditations

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

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

Our Locations

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



Analysis Request of Chain of Custody Record

L1295982

Page : 1 of 1

Tetra Tech, Inc.

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

E219

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	Golden Spur to Wilder Release	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-01867
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	John Thurston
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
-01	FS-4 (2')	12/11/2020	8:30 AM		X				X			1	N	X		X												X						
-02	FS-5 (2')	12/11/2020	8:41 AM		X				X			1	N	X		X												X						
-03	FS-6 (2')	12/11/2020	8:45 AM		X				X			1	N	X		X												X						
-04	FS-7 (2')	12/11/2020	8:55 AM		X				X			1	N	X		X												X						
-05	FS-10 (2')	12/11/2020	8:59 AM		X				X			1	N	X		X												X						
-06	FS-19	12/11/2020	9:35 AM		X				X			1	N	X		X												X						
-07	FS-20 (2')	12/11/2020	9:38 AM		X				X			1	N	X		X												X						
-08	FS-35	12/11/2020	9:41 AM		X				X			1	N	X		X												X						
-09	FS-36	12/11/2020	9:46 AM		X				X			1	N	X		X												X						
10	FS-37	12/11/2020	9:50 AM		X				X			1	N	X		X												X						

Relinquished by:	Date: 12/11/20	Time: 1520	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by: Date: 12-12-20 Time: 9:00

4080 8244 4160

ORIGINAL COPY

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

(Circle) HAND DELIVERED (FEDEX) UPS Tracking #: _____

1.5+2=1.7

RAD SCREEN: <0.5 mR/hr

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client: COPTETRA	L1245982	
Cooler Received/Opened On: 12 / 12 / 20 Temperature:	1.7	
Received By: Delisha Kirkendoll		
Signature: Delisha Kirkendoll		

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

Pace Analytical®
National Center for Testing & Innovation

Login #:L1295982	Client: COPTETRA	Date:12/12/20	Evaluated by:Cole Medley

Non-Conformance (check applicable items)

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

Login Comments: Received additional samples not listed on coc.
ID: FS-21 (2') 12/11/20 1 4oz

Client informed by:		Call	X	Email		Voice Mail		Date: 12/12/20	Time: 13:06
TSR Initials: CM	Client Contact: Christian Llull								

Log FS-21 (2') for V8260BTEX, GRO, DRORLA, CHLORIDE-300, TS.

Login Instructions:

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

December 31, 2020

ConocoPhillips - Tetra Tech

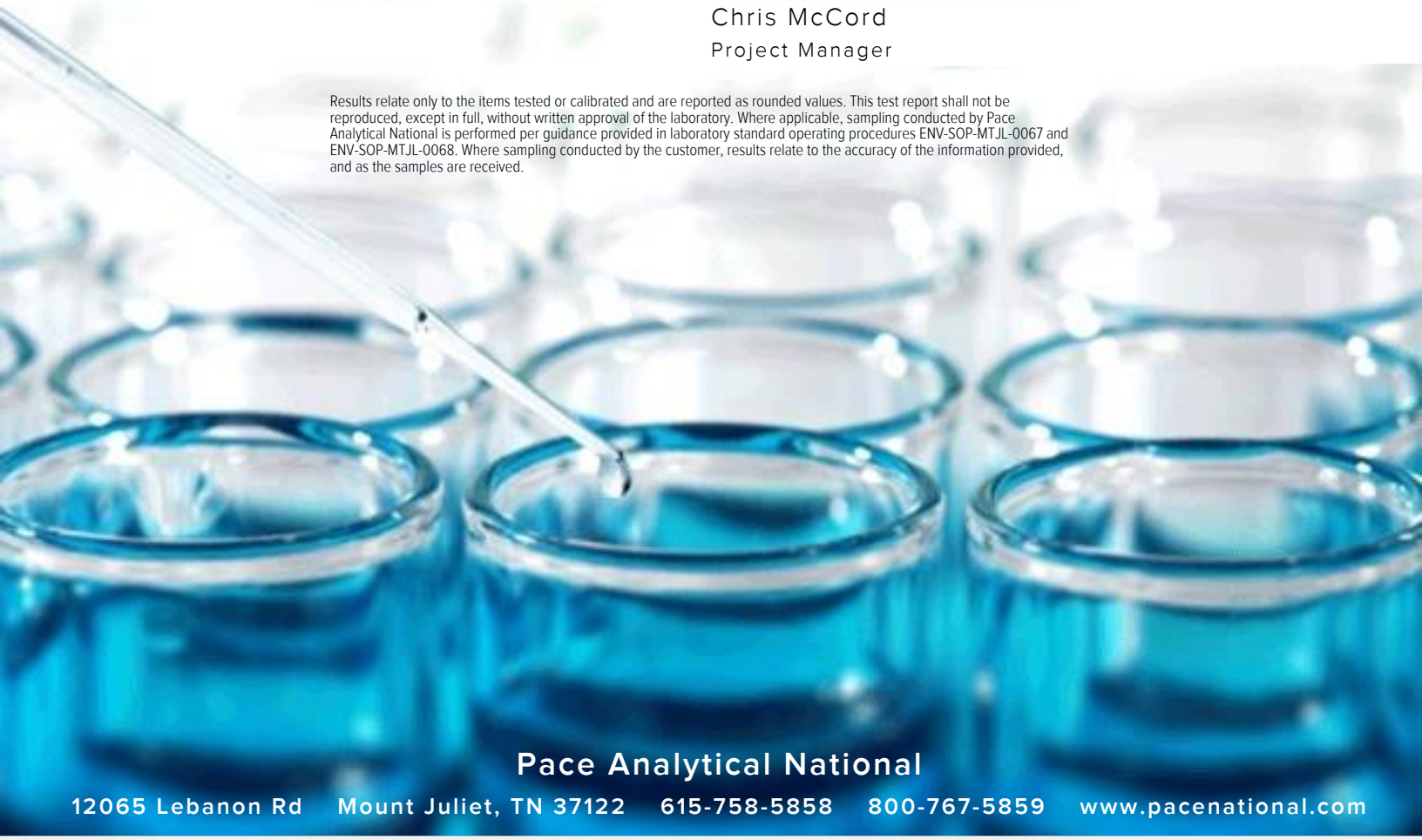
Sample Delivery Group:	L1299180
Samples Received:	12/19/2020
Project Number:	212C-MD-01867
Description:	COP Golden Spur Wilder Release

Report To: Christian Llull
901 West Wall
Suite 100
Midland, TX 79701

Entire Report Reviewed By:

Chris McCord
Project Manager

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



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 8

Sr: Sample Results 9

- CSW-3 L1299180-01 9
- FS-21 L1299180-02 10
- FS-25 L1299180-03 11
- FS-26 L1299180-04 12
- FS-30 L1299180-05 13
- FS-31 L1299180-06 14
- FS-32 L1299180-07 15
- FS-33 L1299180-08 16
- FS-34 L1299180-09 17
- FS-27 L1299180-10 18
- FS-28 L1299180-11 19
- FS-29 L1299180-12 20
- FS-14 L1299180-13 21
- FS-15 L1299180-14 22
- FS-16 L1299180-15 23
- FS-17 L1299180-16 24
- FS-18 L1299180-17 25
- FS-1 L1299180-18 26
- FS-2 L1299180-19 27
- FS-3 L1299180-20 28
- CSW-1 L1299180-21 29
- CSW-2 L1299180-22 30

Qc: Quality Control Summary 31

- Total Solids by Method 2540 G-2011 31
- Wet Chemistry by Method 300.0 35
- Volatile Organic Compounds (GC) by Method 8015D/GRO 37
- Volatile Organic Compounds (GC/MS) by Method 8260B 39
- Semi-Volatile Organic Compounds (GC) by Method 8015 41

Gl: Glossary of Terms 43

Al: Accreditations & Locations 44

Sc: Sample Chain of Custody 45

CSW-3 L1299180-01 Solid

Collected by: John Thurston | Collected date/time: 12/18/20 11:50 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1597609	1	12/27/20 01:07	12/27/20 01:16	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1595619	1	12/22/20 23:50	12/23/20 08:00	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597398	25	12/18/20 11:50	12/24/20 23:12	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597010	1	12/18/20 11:50	12/24/20 03:11	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1597479	1	12/25/20 20:56	12/26/20 16:26	JN	Mt. Juliet, TN

FS-21 L1299180-02 Solid

Collected by: John Thurston | Collected date/time: 12/18/20 00:00 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1597609	1	12/27/20 01:07	12/27/20 01:16	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1595619	5	12/22/20 23:50	12/23/20 08:10	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597398	33.8	12/18/20 00:00	12/24/20 23:33	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597010	1.35	12/18/20 00:00	12/24/20 03:30	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1597479	1	12/25/20 20:56	12/26/20 12:01	JN	Mt. Juliet, TN

FS-25 L1299180-03 Solid

Collected by: John Thurston | Collected date/time: 12/18/20 08:30 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1597609	1	12/27/20 01:07	12/27/20 01:16	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1597507	10	12/26/20 09:27	12/26/20 12:31	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597398	1	12/23/20 17:49	12/24/20 23:54	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597010	1	12/23/20 17:49	12/24/20 03:49	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1597479	1	12/25/20 20:56	12/26/20 12:15	JN	Mt. Juliet, TN

FS-26 L1299180-04 Solid

Collected by: John Thurston | Collected date/time: 12/18/20 08:40 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1597609	1	12/27/20 01:07	12/27/20 01:16	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1597507	10	12/26/20 09:27	12/26/20 12:59	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597398	1.01	12/23/20 17:49	12/25/20 00:15	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597010	1	12/23/20 17:49	12/24/20 04:08	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1597479	1	12/25/20 20:56	12/26/20 16:39	JN	Mt. Juliet, TN

FS-30 L1299180-05 Solid

Collected by: John Thurston | Collected date/time: 12/18/20 08:50 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1597609	1	12/27/20 01:07	12/27/20 01:16	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1597507	10	12/26/20 09:27	12/26/20 13:18	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597398	1	12/23/20 17:49	12/25/20 00:36	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597010	1	12/23/20 17:49	12/24/20 04:27	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1597479	1	12/25/20 20:56	12/26/20 12:28	JN	Mt. Juliet, TN

FS-31 L1299180-06 Solid

Collected by: John Thurston | Collected date/time: 12/18/20 09:00 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1597610	1	12/27/20 00:44	12/27/20 00:53	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1597507	10	12/26/20 09:27	12/26/20 13:28	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597398	1	12/23/20 17:49	12/25/20 00:57	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597010	1	12/23/20 17:49	12/24/20 04:45	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1597479	1	12/25/20 20:56	12/26/20 12:41	JN	Mt. Juliet, TN

FS-32 L1299180-07 Solid

Collected by: John Thurston | Collected date/time: 12/18/20 09:10 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1597610	1	12/27/20 00:44	12/27/20 00:53	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1597507	10	12/26/20 09:27	12/26/20 13:37	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597398	1.01	12/23/20 17:49	12/25/20 01:18	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597010	1	12/23/20 17:49	12/24/20 05:04	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1597479	1	12/25/20 20:56	12/26/20 12:54	JN	Mt. Juliet, TN

FS-33 L1299180-08 Solid

Collected by: John Thurston | Collected date/time: 12/18/20 09:20 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1597610	1	12/27/20 00:44	12/27/20 00:53	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1597507	10	12/26/20 09:27	12/26/20 14:06	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597398	1	12/23/20 17:49	12/25/20 01:39	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597010	1	12/23/20 17:49	12/24/20 05:23	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1597479	1	12/25/20 20:56	12/26/20 13:08	JN	Mt. Juliet, TN

FS-34 L1299180-09 Solid

Collected by: John Thurston | Collected date/time: 12/18/20 09:30 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1597610	1	12/27/20 00:44	12/27/20 00:53	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1597507	10	12/26/20 09:27	12/26/20 14:15	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597398	1	12/23/20 17:49	12/25/20 02:00	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597010	1	12/23/20 17:49	12/24/20 05:42	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1597479	1	12/25/20 20:56	12/26/20 13:21	JN	Mt. Juliet, TN

FS-27 L1299180-10 Solid

Collected by: John Thurston | Collected date/time: 12/18/20 09:40 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1597610	1	12/27/20 00:44	12/27/20 00:53	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1597507	10	12/26/20 09:27	12/26/20 14:25	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597398	1	12/23/20 17:49	12/25/20 02:21	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597010	1	12/23/20 17:49	12/24/20 06:00	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1597479	1	12/25/20 20:56	12/26/20 13:34	JN	Mt. Juliet, TN

FS-28 L1299180-11 Solid

Collected by: John Thurston
Collected date/time: 12/18/20 09:50
Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1597610	1	12/27/20 00:44	12/27/20 00:53	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1597507	10	12/26/20 09:27	12/26/20 14:34	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597398	1	12/23/20 17:49	12/25/20 02:42	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597010	1	12/23/20 17:49	12/24/20 06:19	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1597479	1	12/25/20 20:56	12/26/20 13:47	JN	Mt. Juliet, TN

FS-29 L1299180-12 Solid

Collected by: John Thurston
Collected date/time: 12/18/20 10:00
Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1597611	1	12/27/20 00:20	12/27/20 00:30	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1597507	10	12/26/20 09:27	12/26/20 14:44	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597398	1.01	12/23/20 17:49	12/25/20 03:03	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597010	1	12/23/20 17:49	12/24/20 06:38	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1597479	1	12/25/20 20:56	12/26/20 14:00	JN	Mt. Juliet, TN

FS-14 L1299180-13 Solid

Collected by: John Thurston
Collected date/time: 12/18/20 10:10
Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1597611	1	12/27/20 00:20	12/27/20 00:30	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1597507	10	12/26/20 09:27	12/26/20 14:53	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597398	1	12/23/20 17:49	12/25/20 03:24	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597010	1	12/23/20 17:49	12/24/20 06:57	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1597479	1	12/25/20 20:56	12/26/20 14:14	JN	Mt. Juliet, TN

FS-15 L1299180-14 Solid

Collected by: John Thurston
Collected date/time: 12/18/20 10:20
Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1597611	1	12/27/20 00:20	12/27/20 00:30	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1597507	10	12/26/20 09:27	12/26/20 15:03	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597398	1	12/23/20 17:49	12/25/20 03:45	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597010	1	12/23/20 17:49	12/24/20 07:15	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1597479	1	12/25/20 20:56	12/26/20 14:27	JN	Mt. Juliet, TN

FS-16 L1299180-15 Solid

Collected by: John Thurston
Collected date/time: 12/18/20 10:30
Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1597611	1	12/27/20 00:20	12/27/20 00:30	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1597507	10	12/26/20 09:27	12/26/20 15:12	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597398	1	12/23/20 17:49	12/25/20 04:06	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597010	1	12/23/20 17:49	12/24/20 07:34	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1597479	1	12/25/20 20:56	12/26/20 14:40	JN	Mt. Juliet, TN

FS-17 L1299180-16 Solid

Collected by: John Thurston | Collected date/time: 12/18/20 10:40 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1597611	1	12/27/20 00:20	12/27/20 00:30	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1597507	10	12/26/20 09:27	12/26/20 15:22	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597398	1.01	12/23/20 17:49	12/25/20 04:28	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597010	1	12/23/20 17:49	12/24/20 07:53	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1597479	1	12/25/20 20:56	12/26/20 14:54	JN	Mt. Juliet, TN

FS-18 L1299180-17 Solid

Collected by: John Thurston | Collected date/time: 12/18/20 10:50 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1597611	1	12/27/20 00:20	12/27/20 00:30	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1597507	10	12/26/20 09:27	12/26/20 15:31	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597398	1	12/23/20 17:49	12/25/20 04:49	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597010	1	12/23/20 17:49	12/24/20 08:12	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1597479	1	12/25/20 20:56	12/26/20 15:33	JN	Mt. Juliet, TN

FS-1 L1299180-18 Solid

Collected by: John Thurston | Collected date/time: 12/18/20 11:00 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1597611	1	12/27/20 00:20	12/27/20 00:30	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1597507	10	12/26/20 09:27	12/26/20 16:00	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597398	1.01	12/23/20 17:49	12/25/20 05:10	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597010	1	12/23/20 17:49	12/24/20 08:31	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1597479	1	12/25/20 20:56	12/26/20 15:46	JN	Mt. Juliet, TN

FS-2 L1299180-19 Solid

Collected by: John Thurston | Collected date/time: 12/18/20 11:10 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1597611	1	12/27/20 00:20	12/27/20 00:30	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1597507	10	12/26/20 09:27	12/26/20 16:09	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597398	1	12/23/20 17:49	12/25/20 05:31	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597010	1	12/23/20 17:49	12/24/20 08:50	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1597479	1	12/25/20 20:56	12/26/20 16:00	JN	Mt. Juliet, TN

FS-3 L1299180-20 Solid

Collected by: John Thurston | Collected date/time: 12/18/20 11:20 | Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1597611	1	12/27/20 00:20	12/27/20 00:30	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1597507	10	12/26/20 09:27	12/26/20 16:19	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597398	1	12/23/20 17:49	12/25/20 05:52	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597010	1	12/23/20 17:49	12/24/20 09:09	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1597479	1	12/25/20 20:56	12/26/20 16:13	JN	Mt. Juliet, TN

CSW-1 L1299180-21 Solid

Collected by: John Thurston
Collected date/time: 12/18/20 11:30
Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1597611	1	12/27/20 00:20	12/27/20 00:30	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1597507	1	12/26/20 09:27	12/26/20 16:29	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597615	1	12/23/20 17:49	12/28/20 00:57	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597115	1	12/23/20 17:49	12/24/20 15:36	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1597481	1	12/25/20 21:01	12/28/20 13:12	CAG	Mt. Juliet, TN

CSW-2 L1299180-22 Solid

Collected by: John Thurston
Collected date/time: 12/18/20 11:40
Received date/time: 12/19/20 10:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1597922	1	12/28/20 11:14	12/28/20 11:21	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1597507	1	12/26/20 09:27	12/26/20 16:38	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597615	1	12/23/20 17:49	12/28/20 01:19	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1597115	1	12/23/20 17:49	12/24/20 15:55	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1597481	1	12/25/20 21:01	12/26/20 19:31	JN	Mt. Juliet, TN

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

Chris McCord
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.6		1	12/27/2020 01:16	WG1597609

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	40.5		9.33	20.3	1	12/23/2020 08:00	WG1595619

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		0.559	2.57	25	12/24/2020 23:12	WG1597398
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*		*12/24/2020 23:12*	WG1597398

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	12/24/2020 03:11	WG1597010
Toluene	U		0.00134	0.00515	1	12/24/2020 03:11	WG1597010
Ethylbenzene	U		0.000759	0.00257	1	12/24/2020 03:11	WG1597010
Total Xylenes	U		0.000906	0.00669	1	12/24/2020 03:11	WG1597010
(S) Toluene-d8	*104*			*75.0-131*		*12/24/2020 03:11*	WG1597010
(S) 4-Bromofluorobenzene	*95.4*			*67.0-138*		*12/24/2020 03:11*	WG1597010
(S) 1,2-Dichloroethane-d4	*88.6*			*70.0-130*		*12/24/2020 03:11*	WG1597010

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.63	4.06	1	12/26/2020 16:26	WG1597479
C28-C40 Oil Range	4.66		0.278	4.06	1	12/26/2020 16:26	WG1597479
(S) o-Terphenyl	*89.9*			*18.0-148*		*12/26/2020 16:26*	WG1597479

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.9		1	12/27/2020 01:16	WG1597609

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	1920		50.1	109	5	12/23/2020 08:10	WG1595619

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		0.846	3.90	33.8	12/24/2020 23:33	WG1597398
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*		*12/24/2020 23:33*	WG1597398

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		0.000727	0.00156	1.35	12/24/2020 03:30	WG1597010
Toluene	U		0.00203	0.00779	1.35	12/24/2020 03:30	WG1597010
Ethylbenzene	U		0.00115	0.00390	1.35	12/24/2020 03:30	WG1597010
Total Xylenes	U		0.00137	0.0101	1.35	12/24/2020 03:30	WG1597010
(S) Toluene-d8	*104*			*75.0-131*		*12/24/2020 03:30*	WG1597010
(S) 4-Bromofluorobenzene	*94.0*			*67.0-138*		*12/24/2020 03:30*	WG1597010
(S) 1,2-Dichloroethane-d4	*93.9*			*70.0-130*		*12/24/2020 03:30*	WG1597010

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.75	4.35	1	12/26/2020 12:01	WG1597479
C28-C40 Oil Range	0.624	J	0.298	4.35	1	12/26/2020 12:01	WG1597479
(S) o-Terphenyl	*77.0*			*18.0-148*		*12/26/2020 12:01*	WG1597479

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.1		1	12/27/2020 01:16	WG1597609

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	5500	V	99.9	217	10	12/26/2020 12:31	WG1597507

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		0.0236	0.109	1	12/24/2020 23:54	WG1597398
(S) a,a,a-Trifluorotoluene(FID)	*110*			*77.0-120*		*12/24/2020 23:54*	WG1597398

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		0.000547	0.00117	1	12/24/2020 03:49	WG1597010
Toluene	U		0.00152	0.00586	1	12/24/2020 03:49	WG1597010
Ethylbenzene	U		0.000864	0.00293	1	12/24/2020 03:49	WG1597010
Total Xylenes	U		0.00103	0.00762	1	12/24/2020 03:49	WG1597010
(S) Toluene-d8	*104*			*75.0-131*		*12/24/2020 03:49*	WG1597010
(S) 4-Bromofluorobenzene	*92.2*			*67.0-138*		*12/24/2020 03:49*	WG1597010
(S) 1,2-Dichloroethane-d4	*90.9*			*70.0-130*		*12/24/2020 03:49*	WG1597010

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.75	4.34	1	12/26/2020 12:15	WG1597479
C28-C40 Oil Range	2.47	J	0.298	4.34	1	12/26/2020 12:15	WG1597479
(S) o-Terphenyl	*82.3*			*18.0-148*		*12/26/2020 12:15*	WG1597479

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.0		1	12/27/2020 01:16	WG1597609

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	2410	J3	96.9	211	10	12/26/2020 12:59	WG1597507

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		0.0231	0.106	1.01	12/25/2020 00:15	WG1597398
(S) a,a,a-Trifluorotoluene(FID)	*110*			*77.0-120*		*12/25/2020 00:15*	WG1597398

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		0.000516	0.00111	1	12/24/2020 04:08	WG1597010
Toluene	U		0.00144	0.00553	1	12/24/2020 04:08	WG1597010
Ethylbenzene	U		0.000815	0.00276	1	12/24/2020 04:08	WG1597010
Total Xylenes	U		0.000973	0.00719	1	12/24/2020 04:08	WG1597010
(S) Toluene-d8	*103*			*75.0-131*		*12/24/2020 04:08*	WG1597010
(S) 4-Bromofluorobenzene	*92.6*			*67.0-138*		*12/24/2020 04:08*	WG1597010
(S) 1,2-Dichloroethane-d4	*90.6*			*70.0-130*		*12/24/2020 04:08*	WG1597010

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.67		1.70	4.21	1	12/26/2020 16:39	WG1597479
C28-C40 Oil Range	10.0		0.289	4.21	1	12/26/2020 16:39	WG1597479
(S) o-Terphenyl	*91.5*			*18.0-148*		*12/26/2020 16:39*	WG1597479

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.3		1	12/27/2020 01:16	WG1597609

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	3310		97.5	212	10	12/26/2020 13:18	WG1597507

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0230	0.106	1	12/25/2020 00:36	WG1597398
(S) a,a,a-Trifluorotoluene(FID)	*109*			*77.0-120*		*12/25/2020 00:36*	WG1597398

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		0.000523	0.00112	1	12/24/2020 04:27	WG1597010
Toluene	U		0.00146	0.00560	1	12/24/2020 04:27	WG1597010
Ethylbenzene	U		0.000826	0.00280	1	12/24/2020 04:27	WG1597010
Total Xylenes	U		0.000986	0.00728	1	12/24/2020 04:27	WG1597010
(S) Toluene-d8	*104*			*75.0-131*		*12/24/2020 04:27*	WG1597010
(S) 4-Bromofluorobenzene	*89.1*			*67.0-138*		*12/24/2020 04:27*	WG1597010
(S) 1,2-Dichloroethane-d4	*91.7*			*70.0-130*		*12/24/2020 04:27*	WG1597010

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.57	J	1.71	4.24	1	12/26/2020 12:28	WG1597479
C28-C40 Oil Range	5.49		0.290	4.24	1	12/26/2020 12:28	WG1597479
(S) o-Terphenyl	*92.7*			*18.0-148*		*12/26/2020 12:28*	WG1597479

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.4		1	12/27/2020 00:53	WG1597610

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	3930		101	219	10	12/26/2020 13:28	WG1597507

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		0.0237	0.109	1	12/25/2020 00:57	WG1597398
(S) a,a,a-Trifluorotoluene(FID)	*108*			*77.0-120*		*12/25/2020 00:57*	WG1597398

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		0.000555	0.00119	1	12/24/2020 04:45	WG1597010
Toluene	U		0.00155	0.00594	1	12/24/2020 04:45	WG1597010
Ethylbenzene	U		0.000876	0.00297	1	12/24/2020 04:45	WG1597010
Total Xylenes	U		0.00105	0.00773	1	12/24/2020 04:45	WG1597010
(S) Toluene-d8	*103*			*75.0-131*		*12/24/2020 04:45*	WG1597010
(S) 4-Bromofluorobenzene	*91.4*			*67.0-138*		*12/24/2020 04:45*	WG1597010
(S) 1,2-Dichloroethane-d4	*90.8*			*70.0-130*		*12/24/2020 04:45*	WG1597010

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.76	4.38	1	12/26/2020 12:41	WG1597479
C28-C40 Oil Range	1.41	J	0.300	4.38	1	12/26/2020 12:41	WG1597479
(S) o-Terphenyl	*76.6*			*18.0-148*		*12/26/2020 12:41*	WG1597479

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.9		1	12/27/2020 00:53	WG1597610

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	2930		99.1	215	10	12/26/2020 13:37	WG1597507

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	0.0290	J	0.0236	0.109	1.01	12/25/2020 01:18	WG1597398
(S) a,a,a-Trifluorotoluene(FID)	*109*			*77.0-120*		*12/25/2020 01:18*	WG1597398

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		0.000539	0.00115	1	12/24/2020 05:04	WG1597010
Toluene	U		0.00150	0.00577	1	12/24/2020 05:04	WG1597010
Ethylbenzene	U		0.000851	0.00289	1	12/24/2020 05:04	WG1597010
Total Xylenes	U		0.00102	0.00750	1	12/24/2020 05:04	WG1597010
(S) Toluene-d8	*105*			*75.0-131*		*12/24/2020 05:04*	WG1597010
(S) 4-Bromofluorobenzene	*93.1*			*67.0-138*		*12/24/2020 05:04*	WG1597010
(S) 1,2-Dichloroethane-d4	*90.6*			*70.0-130*		*12/24/2020 05:04*	WG1597010

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.73	4.31	1	12/26/2020 12:54	WG1597479
C28-C40 Oil Range	3.22	J	0.295	4.31	1	12/26/2020 12:54	WG1597479
(S) o-Terphenyl	*84.6*			*18.0-148*		*12/26/2020 12:54*	WG1597479

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.7		1	12/27/2020 00:53	WG1597610

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	5190		101	220	10	12/26/2020 14:06	WG1597507

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	0.0240	J	0.0239	0.110	1	12/25/2020 01:39	WG1597398
(S) a,a,a-Trifluorotoluene(FID)	*105*			*77.0-120*		*12/25/2020 01:39*	WG1597398

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		0.000562	0.00120	1	12/24/2020 05:23	WG1597010
Toluene	U		0.00157	0.00602	1	12/24/2020 05:23	WG1597010
Ethylbenzene	U		0.000888	0.00301	1	12/24/2020 05:23	WG1597010
Total Xylenes	U		0.00106	0.00783	1	12/24/2020 05:23	WG1597010
(S) Toluene-d8	*103*			*75.0-131*		*12/24/2020 05:23*	WG1597010
(S) 4-Bromofluorobenzene	*93.0*			*67.0-138*		*12/24/2020 05:23*	WG1597010
(S) 1,2-Dichloroethane-d4	*89.8*			*70.0-130*		*12/24/2020 05:23*	WG1597010

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.77	4.41	1	12/26/2020 13:08	WG1597479
C28-C40 Oil Range	2.30	J	0.302	4.41	1	12/26/2020 13:08	WG1597479
(S) o-Terphenyl	*86.1*			*18.0-148*		*12/26/2020 13:08*	WG1597479

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.8		1	12/27/2020 00:53	WG1597610

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	2440		99.2	216	10	12/26/2020 14:15	WG1597507

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0234	0.108	1	12/25/2020 02:00	WG1597398
(S) a,a,a-Trifluorotoluene(FID)	*109*			*77.0-120*		*12/25/2020 02:00*	WG1597398

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		0.000540	0.00116	1	12/24/2020 05:42	WG1597010
Toluene	U		0.00150	0.00578	1	12/24/2020 05:42	WG1597010
Ethylbenzene	U		0.000852	0.00289	1	12/24/2020 05:42	WG1597010
Total Xylenes	U		0.00102	0.00751	1	12/24/2020 05:42	WG1597010
(S) Toluene-d8	*104*			*75.0-131*		*12/24/2020 05:42*	WG1597010
(S) 4-Bromofluorobenzene	*95.9*			*67.0-138*		*12/24/2020 05:42*	WG1597010
(S) 1,2-Dichloroethane-d4	*93.0*			*70.0-130*		*12/24/2020 05:42*	WG1597010

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.74	4.31	1	12/26/2020 13:21	WG1597479
C28-C40 Oil Range	4.41		0.295	4.31	1	12/26/2020 13:21	WG1597479
(S) o-Terphenyl	*78.6*			*18.0-148*		*12/26/2020 13:21*	WG1597479

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.5		1	12/27/2020 00:53	WG1597610

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	4130		102	221	10	12/26/2020 14:25	WG1597507

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0240	0.110	1	12/25/2020 02:21	WG1597398
(S) a,a,a-Trifluorotoluene(FID)	*107*			*77.0-120*		*12/25/2020 02:21*	WG1597398

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		0.000565	0.00121	1	12/24/2020 06:00	WG1597010
Toluene	U		0.00157	0.00605	1	12/24/2020 06:00	WG1597010
Ethylbenzene	U		0.000891	0.00302	1	12/24/2020 06:00	WG1597010
Total Xylenes	U		0.00106	0.00786	1	12/24/2020 06:00	WG1597010
(S) Toluene-d8	*104*			*75.0-131*		*12/24/2020 06:00*	WG1597010
(S) 4-Bromofluorobenzene	*87.6*			*67.0-138*		*12/24/2020 06:00*	WG1597010
(S) 1,2-Dichloroethane-d4	*90.1*			*70.0-130*		*12/24/2020 06:00*	WG1597010

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.76	J	1.78	4.42	1	12/26/2020 13:34	WG1597479
C28-C40 Oil Range	3.50	J	0.303	4.42	1	12/26/2020 13:34	WG1597479
(S) o-Terphenyl	*91.5*			*18.0-148*		*12/26/2020 13:34*	WG1597479

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.2		1	12/27/2020 00:53	WG1597610

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	5320		102	222	10	12/26/2020 14:34	WG1597507

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		0.0241	0.111	1	12/25/2020 02:42	WG1597398
(S) a,a,a-Trifluorotoluene(FID)	*108*			*77.0-120*		*12/25/2020 02:42*	WG1597398

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		0.000569	0.00122	1	12/24/2020 06:19	WG1597010
Toluene	U		0.00158	0.00609	1	12/24/2020 06:19	WG1597010
Ethylbenzene	U		0.000898	0.00305	1	12/24/2020 06:19	WG1597010
Total Xylenes	U		0.00107	0.00792	1	12/24/2020 06:19	WG1597010
(S) Toluene-d8	*106*			*75.0-131*		*12/24/2020 06:19*	WG1597010
(S) 4-Bromofluorobenzene	*94.3*			*67.0-138*		*12/24/2020 06:19*	WG1597010
(S) 1,2-Dichloroethane-d4	*89.5*			*70.0-130*		*12/24/2020 06:19*	WG1597010

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.32	J	1.79	4.44	1	12/26/2020 13:47	WG1597479
C28-C40 Oil Range	2.77	J	0.304	4.44	1	12/26/2020 13:47	WG1597479
(S) o-Terphenyl	*86.9*			*18.0-148*		*12/26/2020 13:47*	WG1597479

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.0		1	12/27/2020 00:30	WG1597611

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	3630		98.9	215	10	12/26/2020 14:44	WG1597507

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		0.0236	0.109	1.01	12/25/2020 03:03	WG1597398
(S) a,a,a-Trifluorotoluene(FID)	*109*			*77.0-120*		*12/25/2020 03:03*	WG1597398

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		0.000537	0.00115	1	12/24/2020 06:38	WG1597010
Toluene	U		0.00150	0.00575	1	12/24/2020 06:38	WG1597010
Ethylbenzene	U		0.000848	0.00288	1	12/24/2020 06:38	WG1597010
Total Xylenes	U		0.00101	0.00748	1	12/24/2020 06:38	WG1597010
(S) Toluene-d8	*104*			*75.0-131*		*12/24/2020 06:38*	WG1597010
(S) 4-Bromofluorobenzene	*86.7*			*67.0-138*		*12/24/2020 06:38*	WG1597010
(S) 1,2-Dichloroethane-d4	*90.2*			*70.0-130*		*12/24/2020 06:38*	WG1597010

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.84	J	1.73	4.30	1	12/26/2020 14:00	WG1597479
C28-C40 Oil Range	1.94	J	0.295	4.30	1	12/26/2020 14:00	WG1597479
(S) o-Terphenyl	*92.2*			*18.0-148*		*12/26/2020 14:00*	WG1597479

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.9		1	12/27/2020 00:30	WG1597611

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	4920		102	222	10	12/26/2020 14:53	WG1597507

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		0.0241	0.111	1	12/25/2020 03:24	WG1597398
(S) a,a,a-Trifluorotoluene(FID)	*109*			*77.0-120*		*12/25/2020 03:24*	WG1597398

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		0.000572	0.00123	1	12/24/2020 06:57	WG1597010
Toluene	U		0.00159	0.00613	1	12/24/2020 06:57	WG1597010
Ethylbenzene	U		0.000903	0.00306	1	12/24/2020 06:57	WG1597010
Total Xylenes	U		0.00108	0.00796	1	12/24/2020 06:57	WG1597010
(S) Toluene-d8	*107*			*75.0-131*		*12/24/2020 06:57*	WG1597010
(S) 4-Bromofluorobenzene	*92.6*			*67.0-138*		*12/24/2020 06:57*	WG1597010
(S) 1,2-Dichloroethane-d4	*92.6*			*70.0-130*		*12/24/2020 06:57*	WG1597010

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.41	J	1.79	4.45	1	12/26/2020 14:14	WG1597479
C28-C40 Oil Range	1.99	J	0.305	4.45	1	12/26/2020 14:14	WG1597479
(S) o-Terphenyl	*82.4*			*18.0-148*		*12/26/2020 14:14*	WG1597479

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.6		1	12/27/2020 00:30	WG1597611

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	5510		103	223	10	12/26/2020 15:03	WG1597507

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		0.0242	0.112	1	12/25/2020 03:45	WG1597398
(S) a,a,a-Trifluorotoluene(FID)	*105*			*77.0-120*		*12/25/2020 03:45*	WG1597398

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		0.000576	0.00123	1	12/24/2020 07:15	WG1597010
Toluene	U		0.00160	0.00617	1	12/24/2020 07:15	WG1597010
Ethylbenzene	U		0.000909	0.00308	1	12/24/2020 07:15	WG1597010
Total Xylenes	U		0.00109	0.00801	1	12/24/2020 07:15	WG1597010
(S) Toluene-d8	*106*			*75.0-131*		*12/24/2020 07:15*	WG1597010
(S) 4-Bromofluorobenzene	*95.4*			*67.0-138*		*12/24/2020 07:15*	WG1597010
(S) 1,2-Dichloroethane-d4	*93.2*			*70.0-130*		*12/24/2020 07:15*	WG1597010

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.69	J	1.80	4.47	1	12/26/2020 14:27	WG1597479
C28-C40 Oil Range	1.43	J	0.306	4.47	1	12/26/2020 14:27	WG1597479
(S) o-Terphenyl	*81.2*			*18.0-148*		*12/26/2020 14:27*	WG1597479

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.6		1	12/27/2020 00:30	WG1597611

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	5230		104	226	10	12/26/2020 15:12	WG1597507

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		0.0245	0.113	1	12/25/2020 04:06	WG1597398
(S) a,a,a-Trifluorotoluene(FID)	*108*			*77.0-120*		*12/25/2020 04:06*	WG1597398

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		0.000587	0.00126	1	12/24/2020 07:34	WG1597010
Toluene	U		0.00163	0.00628	1	12/24/2020 07:34	WG1597010
Ethylbenzene	U		0.000926	0.00314	1	12/24/2020 07:34	WG1597010
Total Xylenes	U		0.00111	0.00817	1	12/24/2020 07:34	WG1597010
(S) Toluene-d8	*103*			*75.0-131*		*12/24/2020 07:34*	WG1597010
(S) 4-Bromofluorobenzene	*90.3*			*67.0-138*		*12/24/2020 07:34*	WG1597010
(S) 1,2-Dichloroethane-d4	*92.2*			*70.0-130*		*12/24/2020 07:34*	WG1597010

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.03	J	1.82	4.51	1	12/26/2020 14:40	WG1597479
C28-C40 Oil Range	0.995	J	0.309	4.51	1	12/26/2020 14:40	WG1597479
(S) o-Terphenyl	*88.0*			*18.0-148*		*12/26/2020 14:40*	WG1597479

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.4		1	12/27/2020 00:30	WG1597611

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	4160		102	221	10	12/26/2020 15:22	WG1597507

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		0.0242	0.112	1.01	12/25/2020 04:28	WG1597398
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*		*12/25/2020 04:28*	WG1597398

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U	J3	0.000566	0.00121	1	12/24/2020 07:53	WG1597010
Toluene	U	J3	0.00158	0.00606	1	12/24/2020 07:53	WG1597010
Ethylbenzene	U	J3	0.000894	0.00303	1	12/24/2020 07:53	WG1597010
Total Xylenes	U		0.00107	0.00788	1	12/24/2020 07:53	WG1597010
(S) Toluene-d8	*106*			*75.0-131*		*12/24/2020 07:53*	WG1597010
(S) 4-Bromofluorobenzene	*81.5*			*67.0-138*		*12/24/2020 07:53*	WG1597010
(S) 1,2-Dichloroethane-d4	*90.3*			*70.0-130*		*12/24/2020 07:53*	WG1597010

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.26	J	1.78	4.42	1	12/26/2020 14:54	WG1597479
C28-C40 Oil Range	2.69	J	0.303	4.42	1	12/26/2020 14:54	WG1597479
(S) o-Terphenyl	*90.8*			*18.0-148*		*12/26/2020 14:54*	WG1597479

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.8		1	12/27/2020 00:30	WG1597611

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	2840		98.1	213	10	12/26/2020 15:31	WG1597507

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	0.0406	J	0.0231	0.107	1	12/25/2020 04:49	WG1597398
(S) a,a,a-Trifluorotoluene(FID)	*107*			*77.0-120*		*12/25/2020 04:49*	WG1597398

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		0.000529	0.00113	1	12/24/2020 08:12	WG1597010
Toluene	U		0.00147	0.00566	1	12/24/2020 08:12	WG1597010
Ethylbenzene	U		0.000835	0.00283	1	12/24/2020 08:12	WG1597010
Total Xylenes	U		0.000997	0.00736	1	12/24/2020 08:12	WG1597010
(S) Toluene-d8	*101*			*75.0-131*		*12/24/2020 08:12*	WG1597010
(S) 4-Bromofluorobenzene	*95.1*			*67.0-138*		*12/24/2020 08:12*	WG1597010
(S) 1,2-Dichloroethane-d4	*91.1*			*70.0-130*		*12/24/2020 08:12*	WG1597010

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.56		1.72	4.27	1	12/26/2020 15:33	WG1597479
C28-C40 Oil Range	9.44		0.292	4.27	1	12/26/2020 15:33	WG1597479
(S) o-Terphenyl	*92.6*			*18.0-148*		*12/26/2020 15:33*	WG1597479

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.9		1	12/27/2020 00:30	WG1597611

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	2090		99.0	215	10	12/26/2020 16:00	WG1597507

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		0.0236	0.109	1.01	12/25/2020 05:10	WG1597398
(S) a,a,a-Trifluorotoluene(FID)	*107*			*77.0-120*		*12/25/2020 05:10*	WG1597398

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		0.000538	0.00115	1	12/24/2020 08:31	WG1597010
Toluene	U		0.00150	0.00576	1	12/24/2020 08:31	WG1597010
Ethylbenzene	U		0.000849	0.00288	1	12/24/2020 08:31	WG1597010
Total Xylenes	U		0.00101	0.00749	1	12/24/2020 08:31	WG1597010
(S) Toluene-d8	*104*			*75.0-131*		*12/24/2020 08:31*	WG1597010
(S) 4-Bromofluorobenzene	*93.5*			*67.0-138*		*12/24/2020 08:31*	WG1597010
(S) 1,2-Dichloroethane-d4	*91.1*			*70.0-130*		*12/24/2020 08:31*	WG1597010

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.49	J	1.73	4.30	1	12/26/2020 15:46	WG1597479
C28-C40 Oil Range	4.10	J	0.295	4.30	1	12/26/2020 15:46	WG1597479
(S) o-Terphenyl	*96.7*			*18.0-148*		*12/26/2020 15:46*	WG1597479

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.1		1	12/27/2020 00:30	WG1597611

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	2480		99.9	217	10	12/26/2020 16:09	WG1597507

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		0.0236	0.109	1	12/25/2020 05:31	WG1597398
(S) a,a,a-Trifluorotoluene(FID)	*107*			*77.0-120*		*12/25/2020 05:31*	WG1597398

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		0.000547	0.00117	1	12/24/2020 08:50	WG1597010
Toluene	U		0.00152	0.00585	1	12/24/2020 08:50	WG1597010
Ethylbenzene	U		0.000863	0.00293	1	12/24/2020 08:50	WG1597010
Total Xylenes	U		0.00103	0.00761	1	12/24/2020 08:50	WG1597010
(S) Toluene-d8	*101*			*75.0-131*		*12/24/2020 08:50*	WG1597010
(S) 4-Bromofluorobenzene	*95.8*			*67.0-138*		*12/24/2020 08:50*	WG1597010
(S) 1,2-Dichloroethane-d4	*91.1*			*70.0-130*		*12/24/2020 08:50*	WG1597010

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.75	4.34	1	12/26/2020 16:00	WG1597479
C28-C40 Oil Range	1.61	J	0.297	4.34	1	12/26/2020 16:00	WG1597479
(S) o-Terphenyl	*92.4*			*18.0-148*		*12/26/2020 16:00*	WG1597479

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.0		1	12/27/2020 00:30	WG1597611

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	2790		100	217	10	12/26/2020 16:19	WG1597507

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		0.0236	0.109	1	12/25/2020 05:52	WG1597398
(S) a,a,a-Trifluorotoluene(FID)	*109*			*77.0-120*		*12/25/2020 05:52*	WG1597398

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		0.000548	0.00117	1	12/24/2020 09:09	WG1597010
Toluene	U		0.00152	0.00587	1	12/24/2020 09:09	WG1597010
Ethylbenzene	U		0.000865	0.00293	1	12/24/2020 09:09	WG1597010
Total Xylenes	U		0.00103	0.00762	1	12/24/2020 09:09	WG1597010
(S) Toluene-d8	*104*			*75.0-131*		*12/24/2020 09:09*	WG1597010
(S) 4-Bromofluorobenzene	*94.3*			*67.0-138*		*12/24/2020 09:09*	WG1597010
(S) 1,2-Dichloroethane-d4	*89.8*			*70.0-130*		*12/24/2020 09:09*	WG1597010

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.10	J	1.75	4.35	1	12/26/2020 16:13	WG1597479
C28-C40 Oil Range	3.29	J	0.298	4.35	1	12/26/2020 16:13	WG1597479
(S) o-Terphenyl	*89.0*			*18.0-148*		*12/26/2020 16:13*	WG1597479

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.7		1	12/27/2020 00:30	WG1597611

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	36.8		9.32	20.3	1	12/26/2020 16:29	WG1597507

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		0.0220	0.101	1	12/28/2020 00:57	WG1597615
(S) a,a,a-Trifluorotoluene(FID)	*97.4*			*77.0-120*		*12/28/2020 00:57*	WG1597615

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		0.000479	0.00103	1	12/24/2020 15:36	WG1597115
Toluene	U		0.00133	0.00513	1	12/24/2020 15:36	WG1597115
Ethylbenzene	U		0.000756	0.00256	1	12/24/2020 15:36	WG1597115
Total Xylenes	U		0.000903	0.00667	1	12/24/2020 15:36	WG1597115
(S) Toluene-d8	*100*			*75.0-131*		*12/24/2020 15:36*	WG1597115
(S) 4-Bromofluorobenzene	*98.4*			*67.0-138*		*12/24/2020 15:36*	WG1597115
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*12/24/2020 15:36*	WG1597115

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.85	J	1.63	4.05	1	12/28/2020 13:12	WG1597481
C28-C40 Oil Range	5.67		0.278	4.05	1	12/28/2020 13:12	WG1597481
(S) o-Terphenyl	*101*			*18.0-148*		*12/28/2020 13:12*	WG1597481

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.7		1	12/28/2020 11:21	WG1597922

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	32.3		9.32	20.3	1	12/26/2020 16:38	WG1597507

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		0.0220	0.101	1	12/28/2020 01:19	WG1597615
(S) a,a,a-Trifluorotoluene(FID)	*97.5*			*77.0-120*		*12/28/2020 01:19*	WG1597615

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		0.000479	0.00103	1	12/24/2020 15:55	WG1597115
Toluene	U		0.00133	0.00513	1	12/24/2020 15:55	WG1597115
Ethylbenzene	U		0.000756	0.00256	1	12/24/2020 15:55	WG1597115
Total Xylenes	U		0.000903	0.00667	1	12/24/2020 15:55	WG1597115
(S) Toluene-d8	*99.9*			*75.0-131*		*12/24/2020 15:55*	WG1597115
(S) 4-Bromofluorobenzene	*95.3*			*67.0-138*		*12/24/2020 15:55*	WG1597115
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*12/24/2020 15:55*	WG1597115

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.77	J	1.63	4.05	1	12/26/2020 19:31	WG1597481
C28-C40 Oil Range	7.33		0.278	4.05	1	12/26/2020 19:31	WG1597481
(S) o-Terphenyl	*95.7*			*18.0-148*		*12/26/2020 19:31*	WG1597481

Method Blank (MB)

(MB) R3607670-1 12/27/20 01:16

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

L1298925-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1298925-04 12/27/20 01:16 • (DUP) R3607670-3 12/27/20 01:16

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	79.4	78.0	1	1.79		10

Laboratory Control Sample (LCS)

(LCS) R3607670-2 12/27/20 01:16

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

Method Blank (MB)

(MB) R3607664-1 12/27/20 00:53

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1298732-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1298732-03 12/27/20 00:53 • (DUP) R3607664-3 12/27/20 00:53

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	99.4	99.4	1	0.00463		10

Laboratory Control Sample (LCS)

(LCS) R3607664-2 12/27/20 00:53

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

Method Blank (MB)

(MB) R3607655-1 12/27/20 00:30

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

L1299180-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1299180-16 12/27/20 00:30 • (DUP) R3607655-3 12/27/20 00:30

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	90.4	89.4	1	1.14		10

Laboratory Control Sample (LCS)

(LCS) R3607655-2 12/27/20 00:30

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

Method Blank (MB)

(MB) R3607752-1 12/28/20 11:21

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

Laboratory Control Sample (LCS)

(LCS) R3607752-2 12/28/20 11:21

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

Method Blank (MB)

(MB) R3606593-1 12/23/20 01:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1296835-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1296835-02 12/23/20 04:54 • (DUP) R3606593-5 12/23/20 05:05

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		20

L1299180-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1299180-02 12/23/20 08:10 • (DUP) R3606593-6 12/23/20 08:43

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1920	1980	5	3.38		20

Laboratory Control Sample (LCS)

(LCS) R3606593-2 12/23/20 01:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	205	102	90.0-110	

L1296835-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1296835-01 12/23/20 04:21 • (MS) R3606593-3 12/23/20 04:32 • (MSD) R3606593-4 12/23/20 04:43

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	613	U	622	622	101	101	1	80.0-120			0.0109	20

Method Blank (MB)

(MB) R3607399-1 12/26/20 11:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1299180-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1299180-04 12/26/20 12:59 • (DUP) R3607399-5 12/26/20 13:09

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	2410	1950	10	21.1	J3	20

L1299180-22 Original Sample (OS) • Duplicate (DUP)

(OS) L1299180-22 12/26/20 16:38 • (DUP) R3607399-6 12/26/20 16:48

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	32.3	37.7	1	15.6		20

Laboratory Control Sample (LCS)

(LCS) R3607399-2 12/26/20 12:02

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	205	103	90.0-110	

L1299180-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1299180-03 12/26/20 12:31 • (MS) R3607399-3 12/26/20 12:40 • (MSD) R3607399-4 12/26/20 12:50

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	54.3	5500	5820	5850	59.1	64.5	10	80.0-120	V	V	0.505	20

Method Blank (MB)

(MB) R3608789-2 12/24/20 22:30

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*110*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3608789-1 12/24/20 21:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.11	111	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*109*	*77.0-120*	

L1299180-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1299180-02 12/24/20 23:33 • (MS) R3608789-3 12/25/20 06:13 • (MSD) R3608789-4 12/25/20 06:34

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	215	U	287	242	134	113	33.8	10.0-151			17.0	28
(S) a,a,a-Trifluorotoluene(FID)					*113*	*110*		*77.0-120*				

Method Blank (MB)

(MB) R3607900-2 12/27/20 21:14

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.8*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3607900-1 12/27/20 20:29

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.04	91.6	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*101*	*77.0-120*	

Method Blank (MB)

(MB) R3608779-2 12/24/20 02:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*105*			*75.0-131*
(S) 4-Bromofluorobenzene	*94.3*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*91.1*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3608779-1 12/24/20 01:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00509	102	70.0-123	
Ethylbenzene	0.00500	0.00490	98.0	74.0-126	
Toluene	0.00500	0.00519	104	75.0-121	
Xylenes, Total	0.0150	0.0150	100	72.0-127	
(S) Toluene-d8			*102*	*75.0-131*	
(S) 4-Bromofluorobenzene			*90.0*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*98.6*	*70.0-130*	

L1299180-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1299180-16 12/24/20 07:53 • (MS) R3608779-3 12/24/20 09:28 • (MSD) R3608779-4 12/24/20 09:46

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.152	U	0.0949	0.142	62.6	93.6	1	10.0-149		J3	39.6	37
Ethylbenzene	0.152	U	0.0947	0.147	62.5	96.8	1	10.0-160		J3	43.1	38
Toluene	0.152	U	0.0936	0.141	61.8	92.8	1	10.0-156		J3	40.2	38
Xylenes, Total	0.455	U	0.295	0.428	64.8	94.1	1	10.0-160			36.9	38
(S) Toluene-d8					*99.6*	*99.9*		*75.0-131*				
(S) 4-Bromofluorobenzene					*95.8*	*95.2*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*92.8*	*96.6*		*70.0-130*				

Method Blank (MB)

(MB) R3608608-3 12/24/20 10:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*96.5*			*75.0-131*
(S) 4-Bromofluorobenzene	*97.8*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*

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

(LCS) R3608608-1 12/24/20 08:57 • (LCSD) R3608608-2 12/24/20 09:16

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	0.130	0.128	104	102	70.0-123			1.55	20
Ethylbenzene	0.125	0.116	0.115	92.8	92.0	74.0-126			0.866	20
Toluene	0.125	0.111	0.116	88.8	92.8	75.0-121			4.41	20
Xylenes, Total	0.375	0.323	0.331	86.1	88.3	72.0-127			2.45	20
(S) Toluene-d8				*92.8*	*95.7*	*75.0-131*				
(S) 4-Bromofluorobenzene				*106*	*98.6*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*106*	*104*	*70.0-130*				

L1298795-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1298795-08 12/24/20 12:46 • (MS) R3608608-4 12/24/20 17:11 • (MSD) R3608608-5 12/24/20 17:30

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	U	0.0808	0.0830	64.6	66.4	1	10.0-149			2.69	37
Ethylbenzene	0.125	U	0.0676	0.0674	54.1	53.9	1	10.0-160			0.296	38
Toluene	0.125	U	0.106	0.107	84.8	85.6	1	10.0-156			0.939	38
Xylenes, Total	0.375	0.00225	0.274	0.278	72.5	73.5	1	10.0-160			1.45	38
(S) Toluene-d8					*95.1*	*94.1*		*75.0-131*				
(S) 4-Bromofluorobenzene					*100*	*101*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*98.7*	*104*		*70.0-130*				

Method Blank (MB)

(MB) R3607384-1 12/26/20 11:09

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*84.4*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3607384-2 12/26/20 11:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	38.2	76.4	50.0-150	
(S) o-Terphenyl			*99.5*	*18.0-148*	

L1299180-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1299180-16 12/26/20 14:54 • (MS) R3607384-3 12/26/20 15:07 • (MSD) R3607384-4 12/26/20 15:20

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	55.3	2.26	44.1	41.5	75.7	70.9	1	50.0-150			6.20	20
(S) o-Terphenyl					*91.0*	*93.5*		*18.0-148*				

Method Blank (MB)

(MB) R3607385-1 12/26/20 11:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*81.4*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3607385-2 12/26/20 11:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	40.4	80.8	50.0-150	
(S) o-Terphenyl			*101*	*18.0-148*	

L1298732-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1298732-01 12/28/20 14:05 • (MS) R3607706-1 12/28/20 14:19 • (MSD) R3607706-2 12/28/20 14:32

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	50.1	5.49	48.9	52.0	86.6	92.8	1	50.0-150			6.16	20
(S) o-Terphenyl					*98.2*	*107*		*18.0-148*				

Guide to Reading and Understanding Your Laboratory Report

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

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
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.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

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

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	KY90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA

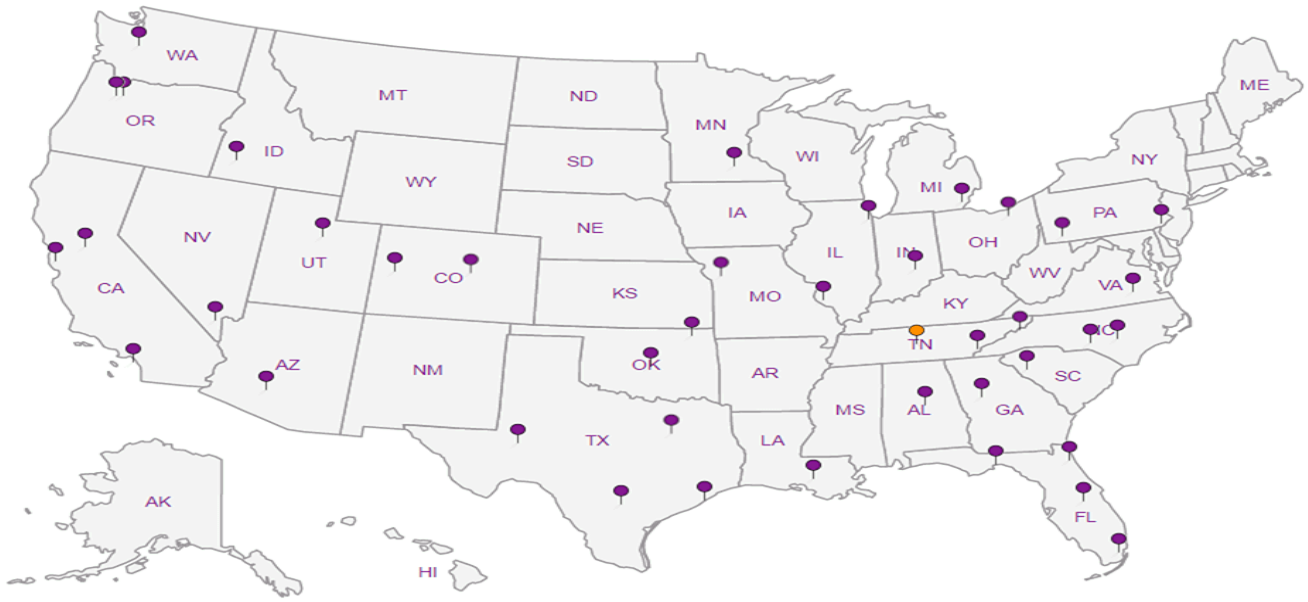
Third Party Federal Accreditations

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

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

Our Locations

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



L1299180

E218

Analysis Request of Chain of Custody Record

Page : 3 of 3

Tetra Tech, Inc.

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

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	Golden Spur to Wilder Release	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-01867
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	John Thurston
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	TIME	MATRIX: WATER	SOIL		PRESERVATIVE METHOD: HCL	HNO_3	ICE	NONE		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD	
	CSW-3	12/18/2020	11:50 AM		X				X			1	N	X		X												X							-01
	FS-21	12/18/2020	12:00 AM		X				X			1	N	X		X												X							-02

Relinquished by: [signature]	Date: 12/18/20	Time: 1328	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by: [signature]	Date: 12/19/20	Time: 1045

LAB USE ONLY

Sample Temperature

REMARKS:
- [ ] Standard
- [X] RUSH: Same Day (24 hr.) 48 hr. 72 hr.
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED (FEDEX) UPS Tracking #:

ORIGINAL COPY

MP02 10to=10

RAD SCREEN: <0.5 mR/hr

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

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	Golden Spur to Wilder Release	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-01867
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	John Thurston
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
1299130		YEAR: 2020																																
01	FS-25	12/18/2020	8:30 AM		X				X			1	N	X		X												X						
02	FS-26	12/18/2020	8:40 AM		X				X			1	N	X		X												X						
03	FS-30	12/18/2020	8:50 AM		X				X			1	N	X		X												X						
04	FS-31	12/18/2020	9:00 AM		X				X			1	N	X		X												X						
05	FS-32	12/18/2020	9:10 AM		X				X			1	N	X		X												X						
06	FS-33	12/18/2020	9:20 AM		X				X			1	N	X		X												X						
07	FS-34	12/18/2020	9:30 AM		X				X			1	N	X		X												X						
08	FS-27	12/18/2020	9:40 AM		X				X			1	N	X		X												X						
09	FS-28	12/18/2020	9:50 AM		X				X			1	N	X		X												X						
10	FS-29	12/18/2020	10:00 AM		X				X			1	N	X		X												X						

Relinquished by: Ezequiel MorenoFlores	Date: 12-18-20 @ 1330	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Analysis Request of Chain of Custody Record

Page : 2 of 3

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:	Golden Spur to Wilder Release	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-01867
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	John Thurston
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
129918		YEAR: 2020																															
11	FS-14	12/18/2020	10:10 AM		X				X			1	N	X		X												X					
12	FS-15	12/18/2020	10:20 AM		X				X			1	N	X		X												X					
13	FS-16	12/18/2020	10:30 AM		X				X			1	N	X		X												X					
14	FS-17	12/18/2020	10:40 AM		X				X			1	N	X		X												X					
15	FS-18	12/18/2020	10:50 AM		X				X			1	N	X		X												X					
16	FS-1	12/18/2020	11:00 AM		X				X			1	N	X		X												X					
17	FS-2	12/18/2020	11:10 AM		X				X			1	N	X		X												X					
18	FS-3	12/18/2020	11:20 AM		X				X			1	N	X		X												X					
19	CSW-1	12/18/2020	11:30 AM		X				X			1	N	X		X												X					
20	CSW-2	12/18/2020	11:40 AM		X				X			1	N	X		X												X					

Relinquished by: Ezequiel MorenoFlores	Date: 12-18-20 @ 1330	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

LAB USE ONLY

Sample Temperature

REMARKS:

- [ ] Standard
- [x] RUSH: Same Day (24 hr.) 48 hr. 72 hr.
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Matt Shacklock

Importance: High

Pace Analytical®
National Center for Testing & Innovation

Login #: L1299180	Client:COPTETRA	Date: 12/19/20	Evaluated by: Myra "Katie" Ingram

Non-Conformance (check applicable items)

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

Login Comments:

Only received page 3 of 3.
Did receive 20 addition IDs not listed on the page received.

Client informed by:		Call		Email		Voice Mail		Date: 12/21/20	Time: 10:52
TSR Initials: CM	Client Contact:								

Login Instructions:

Log all samples for CHLORIDE-300, TS, GRO, V8260BTEX, DRORLA. COC to follow.

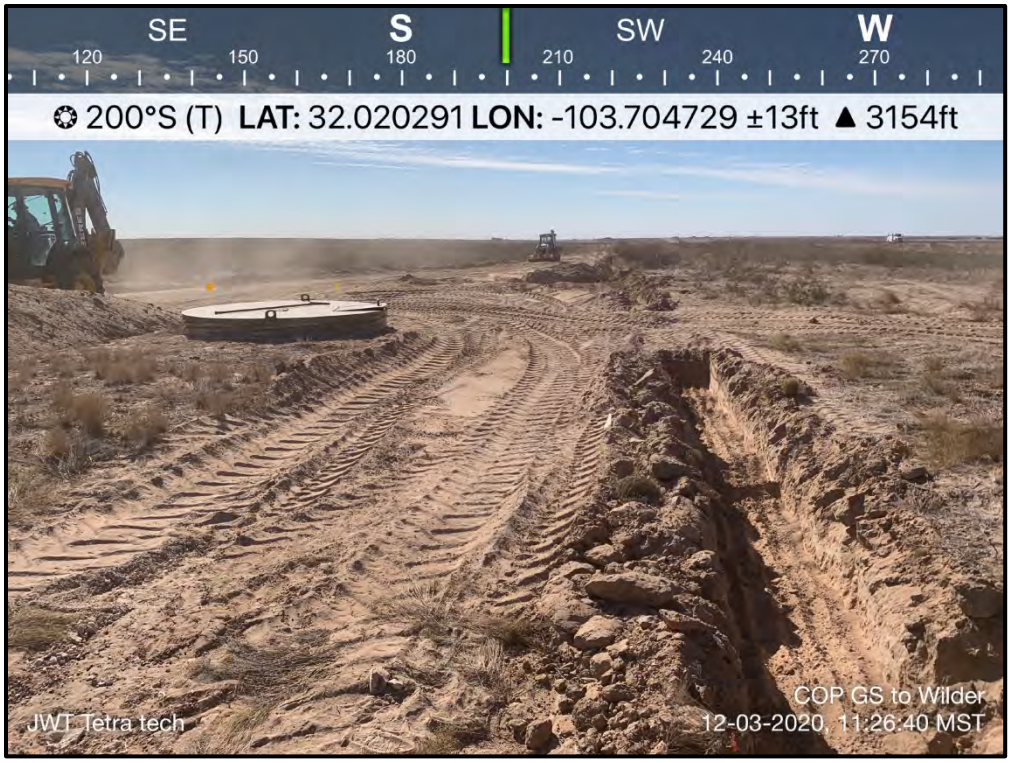
APPENDIX D
Photographic Documentation

TETRA TECH, INC. PROJECT NO. 212C-MD-01867	DESCRIPTION	View of southern portion of the release footprint	1
	SITE NAME	Golden Spur to Wilder Release	7/15/2019

TETRA TECH, INC. PROJECT NO. 212C-MD-01867	DESCRIPTION	View of northern portion of the release footprint	2
	SITE NAME	Golden Spur to Wilder Release	7/15/2019

TETRA TECH, INC. PROJECT NO. 212C-MD-01867	DESCRIPTION	View of northern portion of the release footprint	3
	SITE NAME	Golden Spur to Wilder Release	7/15/2019

TETRA TECH, INC. PROJECT NO. 212C-MD-01867	DESCRIPTION	View of northern portion of the release footprint.	4
	SITE NAME	Golden Spur to Wilder Release	7/15/2019

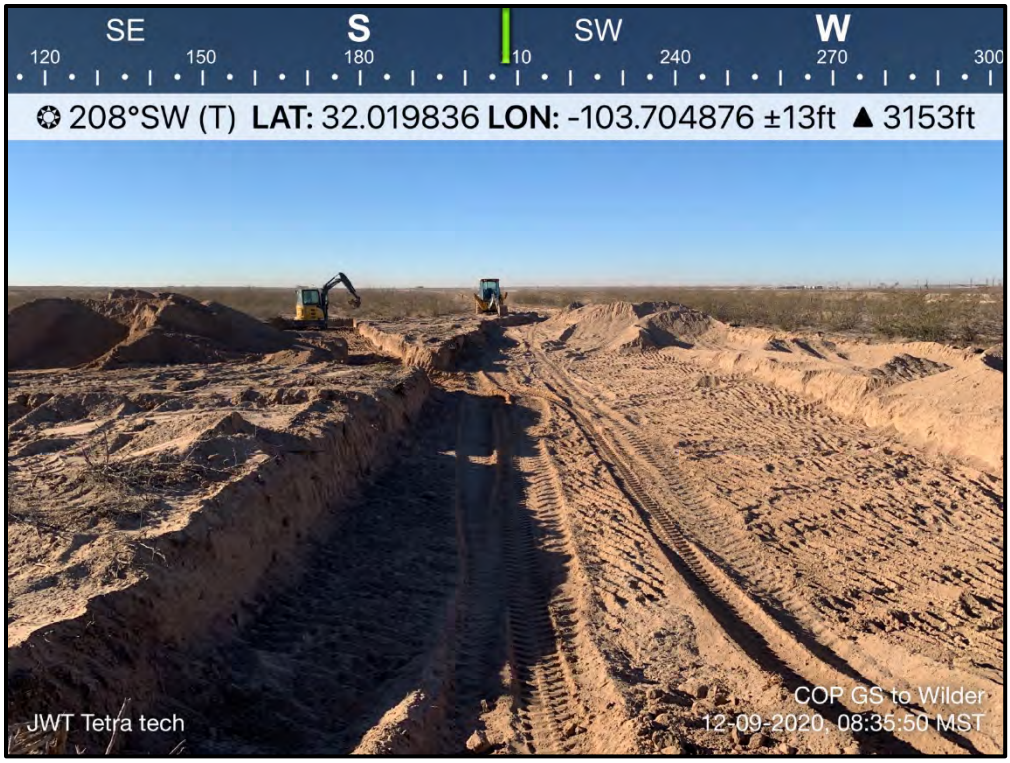


TETRA TECH, INC. PROJECT NO. 212C-MD-01867	DESCRIPTION	View facing south of excavation activities.	5
	SITE NAME	Golden Spur to Wilder Release	12/3/2020

TETRA TECH, INC. PROJECT NO. 212C-MD-01867	DESCRIPTION	View facing south of excavation in the release footprint.	6
	SITE NAME	Golden Spur to Wilder Release	12/3/2020

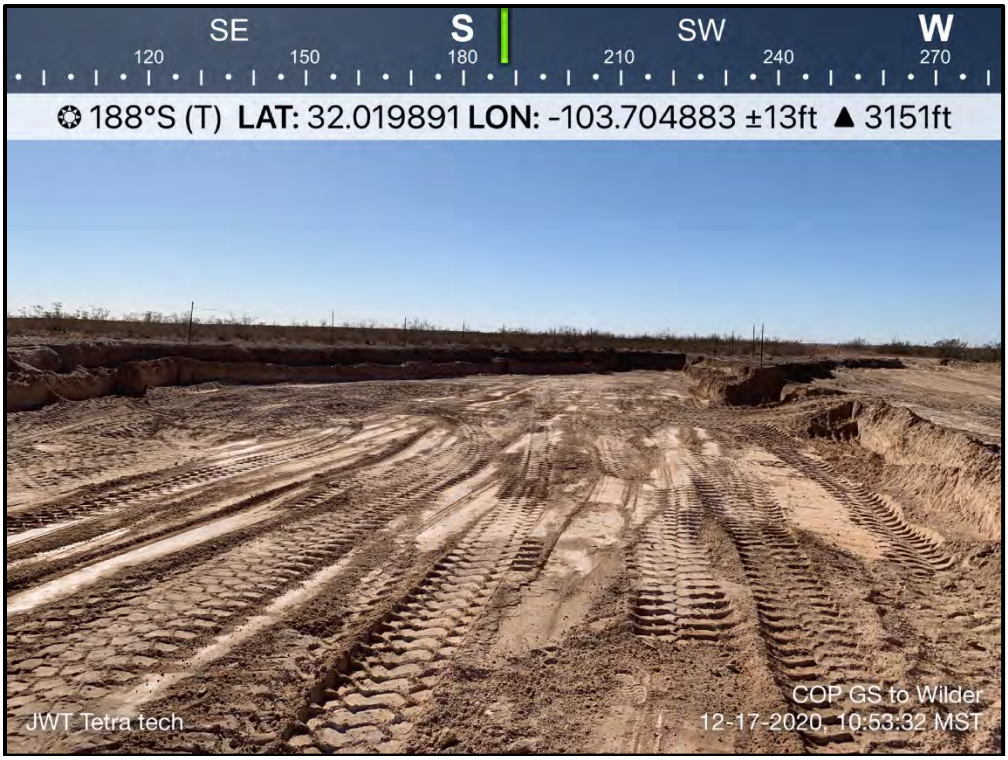
TETRA TECH, INC. PROJECT NO. 212C-MD-01867	DESCRIPTION	View facing south of excavation in the release footprint.	7
	SITE NAME	Golden Spur to Wilder Release	12/4/2020

TETRA TECH, INC. PROJECT NO. 212C-MD-01867	DESCRIPTION	View facing south of excavation activities in the release footprint.	8
	SITE NAME	Golden Spur to Wilder Release	12/4/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-01867	DESCRIPTION	View facing southwest of excavation activities in the release footprint.	9
	SITE NAME	Golden Spur to Wilder Release	12/9/2020

TETRA TECH, INC. PROJECT NO. 212C-MD-01867	DESCRIPTION	View facing south of excavation in the release footprint.	10
	SITE NAME	Golden Spur to Wilder Release	12/17/2020



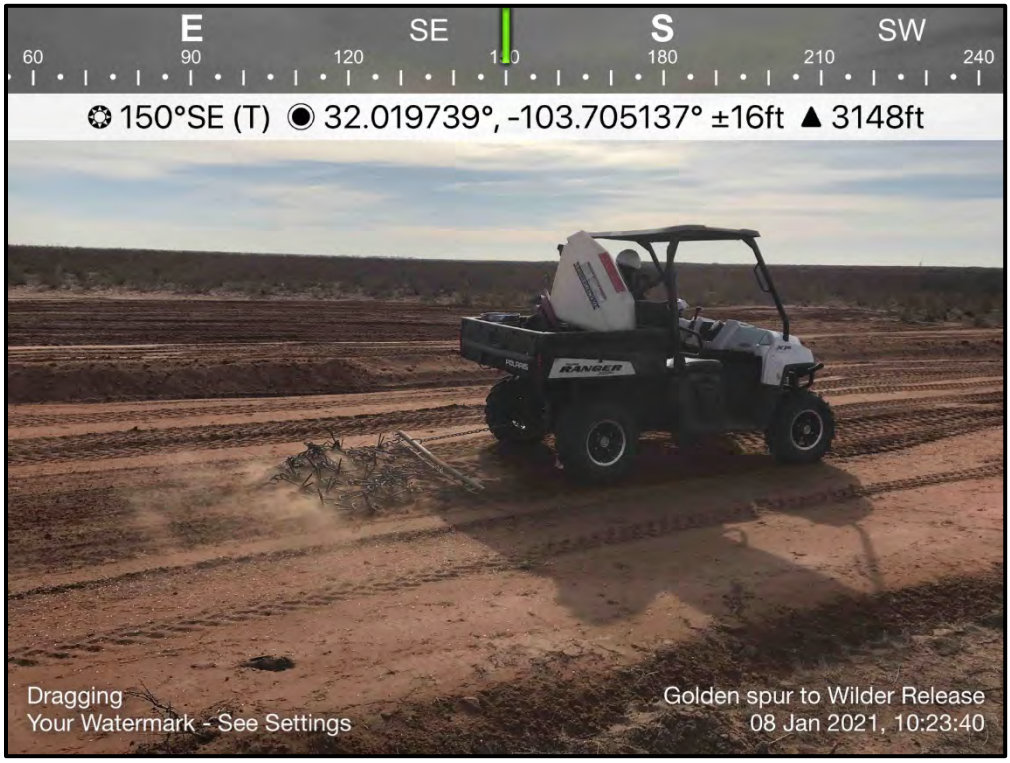
TETRA TECH, INC. PROJECT NO. 212C-MD-01867	DESCRIPTION	View facing south of excavation in the release footprint.	11
	SITE NAME	Golden Spur to Wilder Release	12/17/2020

TETRA TECH, INC. PROJECT NO. 212C-MD-01867	DESCRIPTION	View facing south of liner deployment at base of excavation.	12
	SITE NAME	Golden Spur to Wilder Release	12/17/2020

TETRA TECH, INC. PROJECT NO. 212C-MD-01867	DESCRIPTION	View facing south of liner deployment at base of excavation. Note backfilling activities.	13
	SITE NAME	Golden Spur to Wilder Release	12/21/2020

TETRA TECH, INC. PROJECT NO. 212C-MD-01867	DESCRIPTION	View facing south of liner deployment at base of excavation. Note backfilling activities.	14
	SITE NAME	Golden Spur to Wilder Release	12/21/2020

TETRA TECH, INC. PROJECT NO. 212C-MD-01867	DESCRIPTION	View facing southwest of seeded backfilled area.	15
	SITE NAME	Golden Spur to Wilder Release	01/08/2021



TETRA TECH, INC. PROJECT NO. 212C-MD-01867	DESCRIPTION	View facing southeast of dragging activities on seeded backfilled area.	16
	SITE NAME	Golden Spur to Wilder Release	01/08/2021

TETRA TECH, INC. PROJECT NO. 212C-MD-01867	DESCRIPTION	View facing southeast of dragging activities on seeded backfilled area.	17
	SITE NAME	Golden Spur to Wilder Release	01/08/2021

TETRA TECH, INC. PROJECT NO. 212C-MD-01867	DESCRIPTION	View facing southwest of completion of remedial activities.	18
	SITE NAME	Golden Spur to Wilder Release	01/08/2021

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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811 S. First St., Artesia, NM 88210
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District III
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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 22978

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 22978
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
ceads	None	7/22/2021