SITE INFORMATION

Report Type: Work Plan 1RP-739

General Site Information:						
Site:	EVGSAU 3366-029 Flowline Release					
Company:	ConocoPhillips					
Section, Township and Range	Unit Letter E	Sec. 33	T 17S	R 35E		
Lease Number:	Associated API No. 30-025-02987					
County:	Lea					
GPS:	32.793369			-103.470367		
Surface Owner:	State					
Mineral Owner:	State					
Directions:	Depart from Buckeye (NM238/Buckeye Rd.). Head east on Buckeye Rd. for 1.72 miles. Turn right onto dirt road. Head south for 0.44 miles. Turn left onto dirt road. Head northeast for 0.16 miles. Turn right onto dirt road. Head east for 0.14miles. Arrive at location.					

Release Data:		
Date Released:	3/29/2004	
Type Release:	Produced Water/Oil	
Source of Contamination:	Flowline Leak	
Fluid Released:	88 bbls	
Fluids Recovered:	85 bbls	

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

Site Characterization	
Shallowest Depth to Groundwater:	*80' 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:	*Low*
Extents within a 100-year floodplain:	*No*
Impact to areas not on a production site:	*No*

Recommended Remedial Action Levels (RRALs)				
Benzene	***Total BTEX***	***TPH (GRO+DRO)***	***TPH (GRO+DRO+MRO)***	***Chlorides***
10 mg/kg	*50 mg/kg*	*1,000 mg/kg*	*2,500 mg/kg*	*10,000 mg/kg*

TETRA TECH

October 27, 2020

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

Re: Release Characterization and Remediation Work Plan
ConocoPhillips
EVGSAU 3366-029 Flowline Release
Unit Letter E, Section 33, Township 17 South, Range 35 East
Lea County, New Mexico
1RP-739

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to assess a release that occurred from the flowline of the East Vacuum Grayburg-San Andres Unit (EVGSAU) 3366-029 well (Associated API No. 30-025-02987), approximately 300 feet west of the wellhead. The release footprint is located in Public Land Survey System (PLSS) Unit Letter E, Section 33, Township 17 South, Range 35 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.793358°, -103.470211°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Attachment A), the release was discovered on March 29, 2004. As documented on the C-41 form, a flowline rupture due to external corrosion led to the release of approximately 62 barrels (bbls.) of produced water and 26 bbls of oil. The approximate release extent was reported as encompassing an area of 8,740 square feet (sf). During the initial response, 61 bbls of produced water and 24 bbls of oil were recovered. The C-141 is dated April 2004, however it is unclear when the New Mexico Oil Conservation District (NMOCD) received the C-141 report form for the release. The NMOCD assigned this release Remediation Permit 1RP-739.

SITE CHARACTERIZATION

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

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are three water wells within a ½ mile (800-meter) radius of the Site in the Public Land Survey System (PLSS) Section 33, Township 17 South, and Range 35 East with an average depth to groundwater at 80 feet below ground surface (bgs). The site characterization data is included in Appendix B.

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

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

levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization, the RRALs for the Site are as follows:

Constituent	RRAL
Chloride (0-4 ft bgs)	600 mg/kg
Chloride (>4 ft bgs)	10,000 mg/kg
TPH	2,500 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

INITIAL ASSESSMENT ACTIVITIES AND SAMPLING RESULTS

As a portion of initial response, an Environmental Site Investigation was conducted by BBC International, and their summary report is dated June 1, 2004 (Appendix C). This report is available in the online NMOCD database for this release. The report states that on May 4, 2004, BBC personnel conducted an inspection of the site and drilled one soil boring (SB1). Three (3) samples were taken from the soil boring in the center of the release area footprint. The soil boring was drilled with an air rotary drilling rig to a total depth of 25 feet. The three samples were taken from the soil boring at depths of one foot, 15 feet, and 25 feet. The samples were taken to Cardinal Laboratories and analyzed for BTEX, TPH (GRO and ORO), and chlorides. Boring locations are shown in Figure 3.

The report also states that a second additional sampling event was conducted by BBC personnel on May 12, 2004. Two (2) samples were taken, both at a depth of approximately 1 foot. Sample Point 1 was taken from the west end of the release site and Sample Point 2 was taken from the east end of the site. The samples were taken to Cardinal Laboratories and analyzed for BTEX, TPH (GRO and ORO), and chlorides. Approximate boring locations are shown in Figure 3.

Analytical results associated with the three (3) sample locations exceeded the current delineation concentration of 600 mg/kg chloride required by NMOCD regulations. The analytical results associated with two (2) of the soil samples exceeded the reclamation concentration for TPH (100 mg/kg) in the upper four feet. A copy of the analytical laboratory report and chain-of-custody documentation are included in Appendix C. Sample results from the initial assessment are summarized in Table 1. Horizontal delineation of the release was not achieved during this assessment.

The report recommended that that approximately 1 foot of topsoil, down to the rock layer, be removed and properly disposed of. The report states that this soil would be transported to an approved land farm or disposal site. The excavated area would then be backfilled with clean topsoil and reseeded with the appropriate BLM seed mix and the site would be closed. It is unclear when or whether this remediation ever occurred for the release site.

ADDITIONAL SITE ASSESSMENT

In order to properly characterize this historic release and achieve horizontal and vertical delineation of the release extent, Tetra Tech personnel conducted soil sampling on May 20, 2020 on behalf of ConocoPhillips.

A total of five (5) borings (BH-20-1 through BH-20-5) were installed using an air rotary drilling rig at the 1RP-739 footprint. Three (3) borings (BH-20-1, BH-20-2 and BH-20-5) were installed within the release extent. Borings BH-20-1 and BH-20-2 were drilled to a depth of 25 feet bgs to achieve vertical delineation. Boring BH-20-5 was drilled to 5 feet bgs. Two borings (BH-20-3 and BH-20-4) were installed along the perimeter of the release extent (to the east, north, respectively) to a depth of 10 feet bgs to achieve horizontal delineation.

Additionally, two borings were drilled on the west side of the release footprint, BH-20-1W and BH-20-2W. These borings provided the western horizontal edge of the delineation.

Due to numerous surface and subsurface lines in the vicinity of the release, the air rotary drilling rig could not access the immediate area south of the release extent. One additional boring (BH-20-1S) was completed on the other side of the subsurface pipelines in order to provide horizontal delineation to the south. Figure 4 depicts the release extent and the May 2020 soil boring locations.

A previous boring from a different COP release characterization (EVGSAU 3307-007 Flowline release (1RP-5079), B-8, served as the southern boundary for the T-shaped release on the south and southwest side. The analytical data from the B-8 boring is included in Table 3 and the analytical report is included within Appendix C.

A total of thirty-eight (38) samples were collected from the eight (8) borings drilled in May 2020 and submitted to Pace Analytical National Center for Testing & Innovation (Pace) in Nashville, Tennessee to be analyzed for chlorides via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix C. Sample locations are shown in Figure 4. Photographic documentation of the release extent from an additional site inspection is included in Appendix E.

SUMMARY OF SAMPLING RESULTS

Results from the May 2020 soil sampling event are summarized in Table 2. The analytical results associated with the BH-20-2 and the BH-20-5 (release interior) locations exceeded the Site RRAL for TPH of 100 mg/kg at the 0-1' interval. The analytical results associated with the BH-20-2 and the BH-20-5 exceeded the Site chloride RRAL (0-4 ft bgs) of 600 mg/kg in both the 0-1' and the 2-3' sample intervals. The analytical results associated with the BH-20-1 location exceeded the Site chloride RRAL (0-4 ft bgs) of 600 mg/kg in the 2-3' sample interval. There were no other analytical results which exceeded the Site chloride RRAL in the upper four feet during the additional assessment. Analytical results associated with samples collected from below four feet within the footprint were below the Site RRAL for chloride (10,000 mg/kg) at greater than 4' bgs. There were no detections of BTEX above the Site RRAL of 50 mg/kg in any of the analyzed samples.

REMEDIATION WORK PLAN

Based on the analytical results, ConocoPhillips proposes to remove the remaining impacted material as shown in Figure 5. Impacted soils will be excavated using heavy equipment (backhoes, hoe rams, and track hoes) to a maximum depth of 4 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation is below the RRALs. The southern area of the release extent that contains steel surface lines will be hand-dug to a depth of 3 feet or the maximum extent practicable and heavy equipment will come no closer than 3 ft from any pressurized lines.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation bottom and sidewall samples will be collected for verification of remedial activities, and analyzed for TPH, BTEX, and chlorides. Once results are received, NMOCD will be notified and the excavation will then be backfilled with clean material to surface grade. The estimated volume of material to be remediated is approximately 1,500 cubic yards.

ALTERNATIVE CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, ConocoPhillips proposes the following alternative confirmation sampling plan to adhere with NMOCD requirements. The proposed confirmation sample locations are depicted in Figure 6. Twenty-seven (27) confirmation floor samples and twenty-three (23) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 10,335 square feet.

These confirmation sidewall and floor samples will be representative of no more than approximately 500 square feet of excavated area. Confirmation samples will be sent to Pace Laboratories for analysis of TPH (Method 8015 modified), BTEX (Method 8260B), and chloride (USEPA Method 300.0). Once results are received, NMOCD will be notified and the excavation will then be backfilled with clean material to surface grade.

SITE RECLAMATION AND RESTORATION PLAN

The backfilled areas will be seeded in Spring 2021 (first favorable growing season) to aid in revegetation. Based on the soils at the site, the New Mexico State Land Office (NMSLO) Sandy Loam (SL) Sites Seed Mixture will be used for seeding and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled.

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

CONCLUSION

ConocoPhillips proposes to begin remediation activities at the Site within 120 days of NMOCD plan approval. Upon completion of the proposed work, a final closure report detailing the remediation activities and the results of the confirmation sampling will be submitted to NMOCD. If you have any questions concerning the soil assessment or the proposed remediation activities for the Site, please call me at (512) 338-2861 or Greg at (432) 682-4559.

Sincerely,
Tetra Tech, Inc.

Christian M. Llull, P.G.
Project Manager

Greg W. Pope, P.G.
Program Manager

cc:
Mr. Marvin Soriwei, RMR – ConocoPhillips
Mr. Charles Beauvais, GPBU - ConocoPhillips

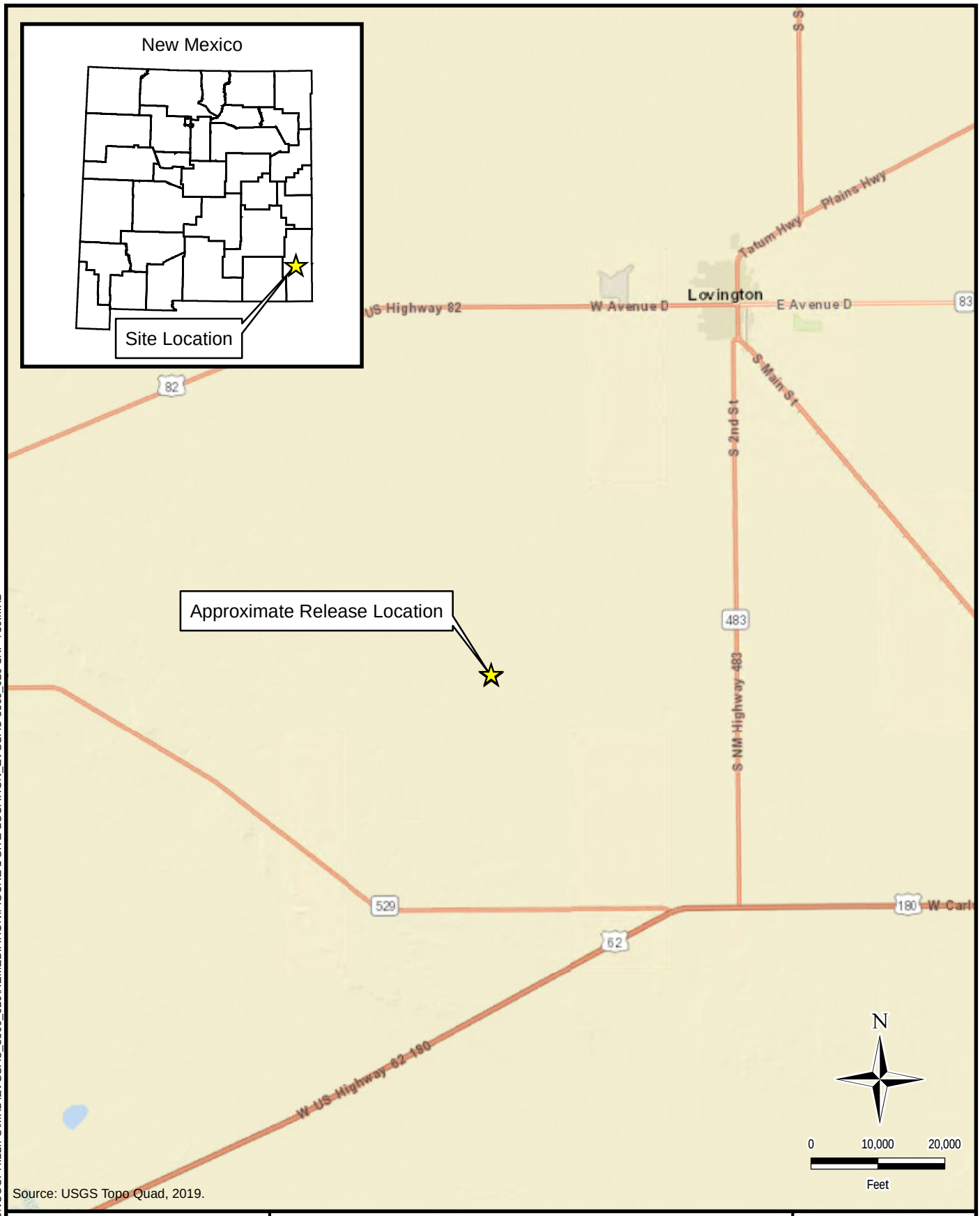
LIST OF ATTACHMENTS

Figures:

Tables:

Appendices:

FIGURES



Source: USGS Topo Quad, 2019.

DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\EVGSAU_3366_029REMEDIATION\FIGURE 1 SITE LOCATION_EVGSAU 3366_029 1RP-739.MXD

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

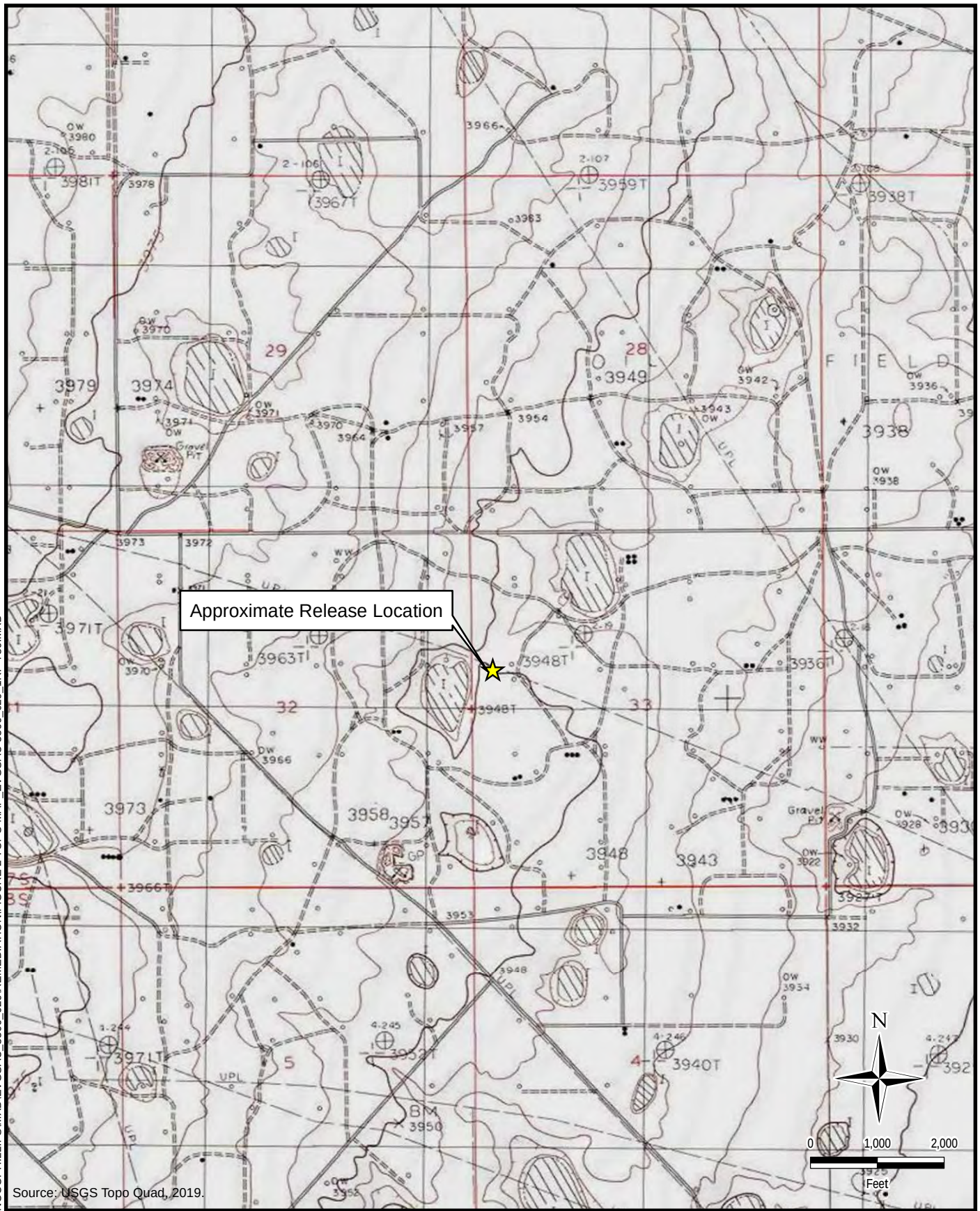
CONOCOPHILLIPS

1RP-739
(32.793358°, -103.470211°)
LEA COUNTY, NEW MEXICO

EVGSAU 3366-029 FLOWLINE RELEASE
SITE LOCATION MAP

PROJECT NO.:	212C-AU-01576
DATE:	AUGUST 18, 2020
DESIGNED BY:	AAM

Figure No.
1



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\EVGSAU_3366_029\REMEDIATION\FIGURE 2 TOPO MAP_EVGSAU 3366_029_1RP-739.MXD

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

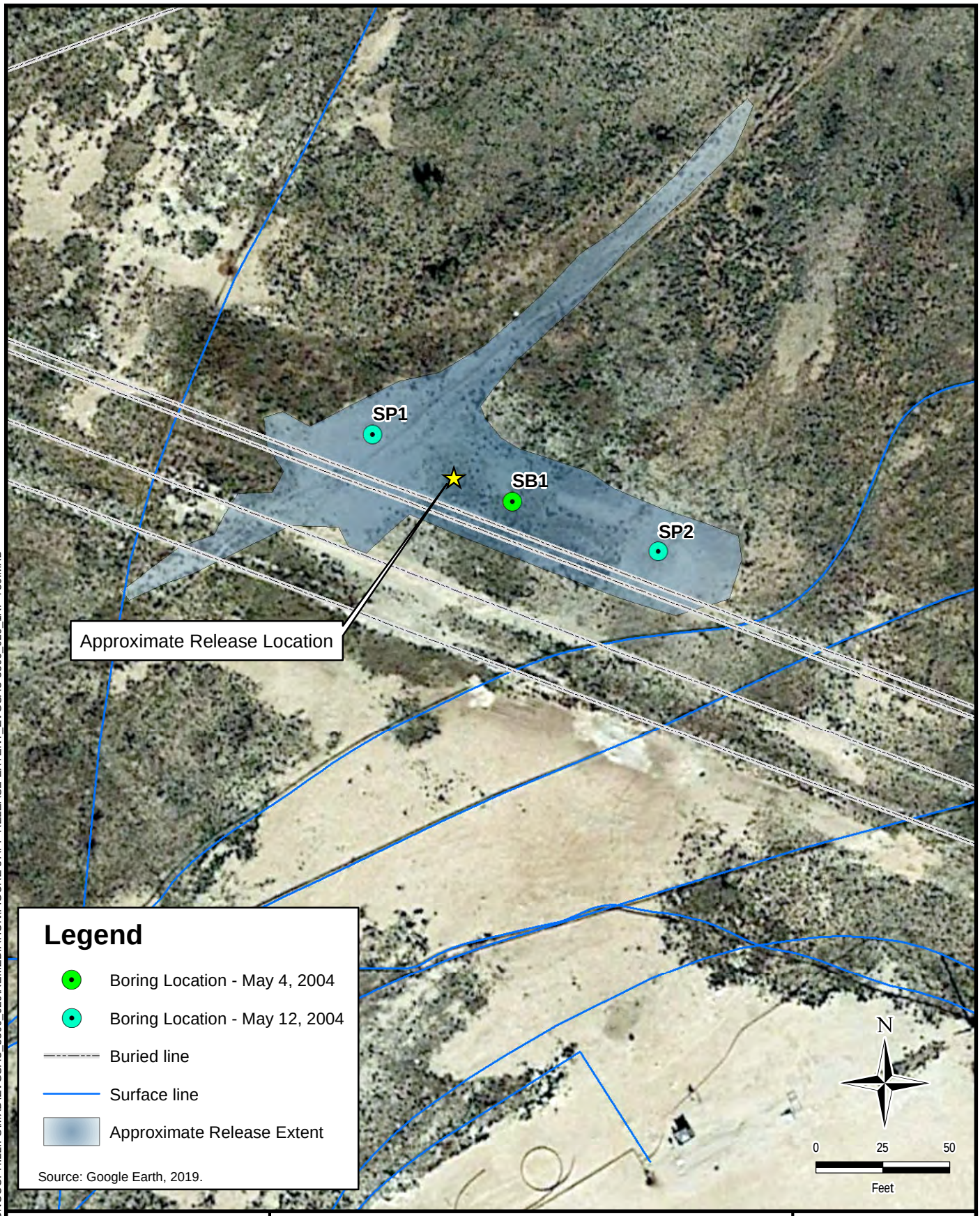
CONOCOPHILLIPS

1RP-739
(32.793358°, -103.470211°)
LEA COUNTY, NEW MEXICO

EVGSAU 3366-029 FLOWLINE RELEASE
TOPOGRAPHIC MAP

PROJECT NO.:	212C-AU-01576
DATE:	AUGUST 18, 2020
DESIGNED BY:	AAM

Figure No.
2



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\EVGSAU_3366_029\REMEDIATION\FIGURE 3 APP RELEASE EXTENT_EVGSAU 3366_029_1RP-739.MXD

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

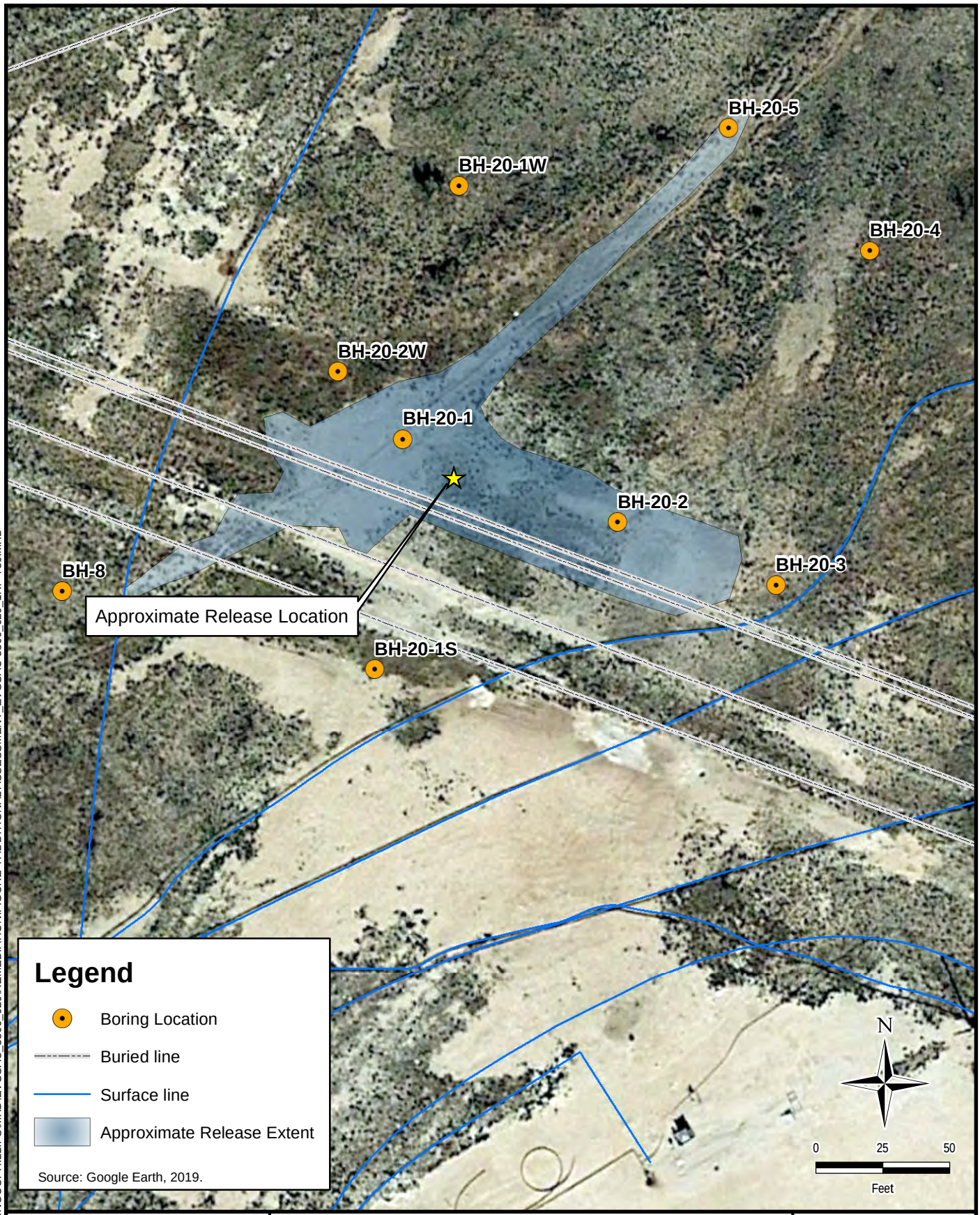
CONOCOPHILLIPS

1RP-739
(32.793358°, -103.470211°)
LEA COUNTY, NEW MEXICO

EVGSAU 3366-029 FLOWLINE RELEASE
APPROXIMATE RELEASE EXTENT AND INITIAL ASSESSMENT

PROJECT NO.:	212C-AU-01576
DATE:	OCTOBER 13, 2020
DESIGNED BY:	AAM

Figure No.
3



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\EVGSAU_3366_029\REMEDIATION\FIGURE 4 ADDITIONAL ASSESSMENT_EVGSAU 3366_029_1RP-739.MXD

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

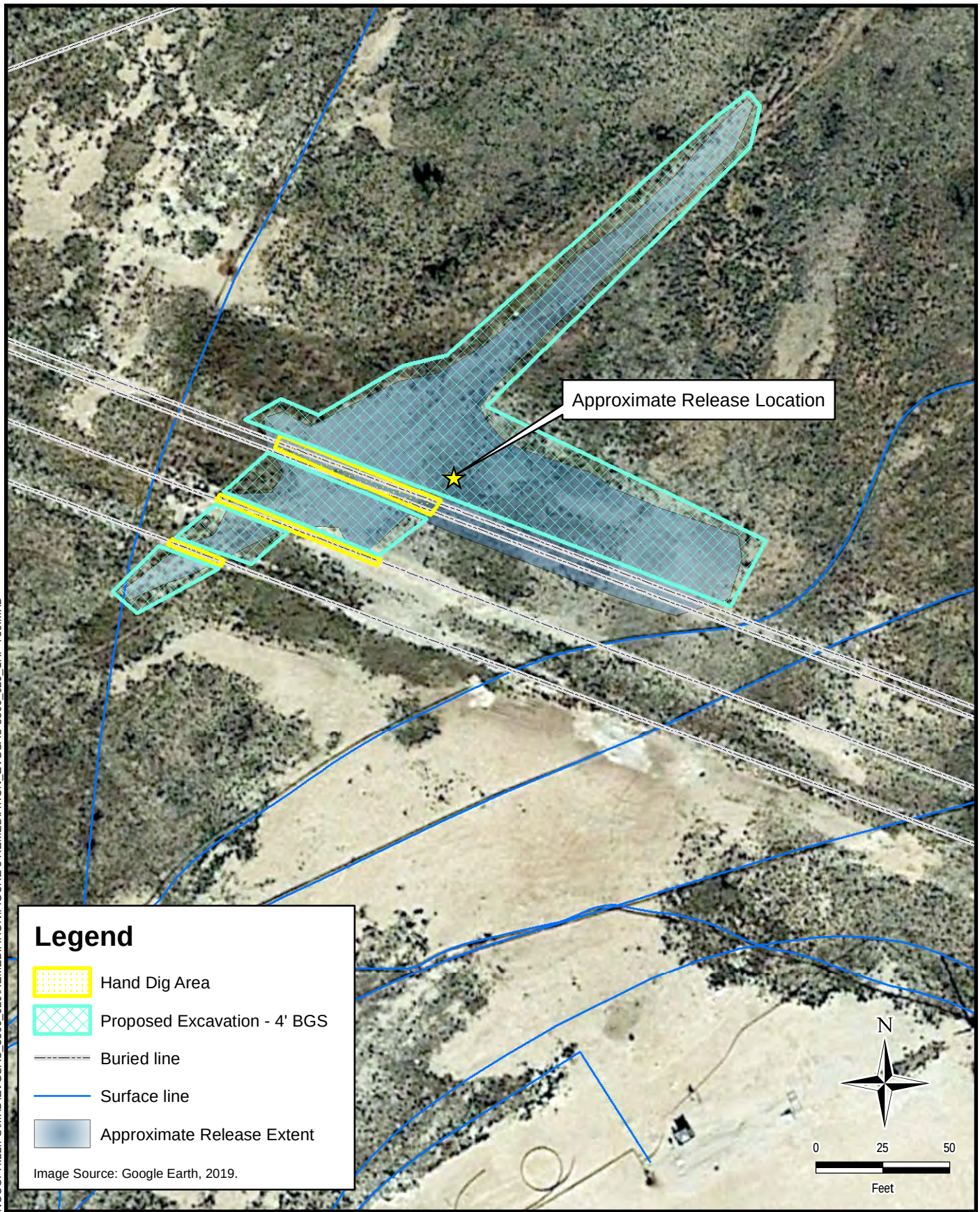
CONOCOPHILLIPS

1RP-739
(32.793358°, -103.470211°)
LEA COUNTY, NEW MEXICO

EVGSAU 3366-029 FLOWLINE RELEASE
APPROXIMATE RELEASE EXTENT AND ADDITIONAL ASSESSMENT

PROJECT NO.:	212C-AU-01576
DATE:	OCTOBER 13, 2020
DESIGNED BY:	AAM

Figure No.
4



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\EVGSAU_3366_029REMEDIATION\FIGURE 5 REMEDIATION_EVGSAU 3366_029_1RP-739.MXD

TETRA TECH

www.tetratech.com

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

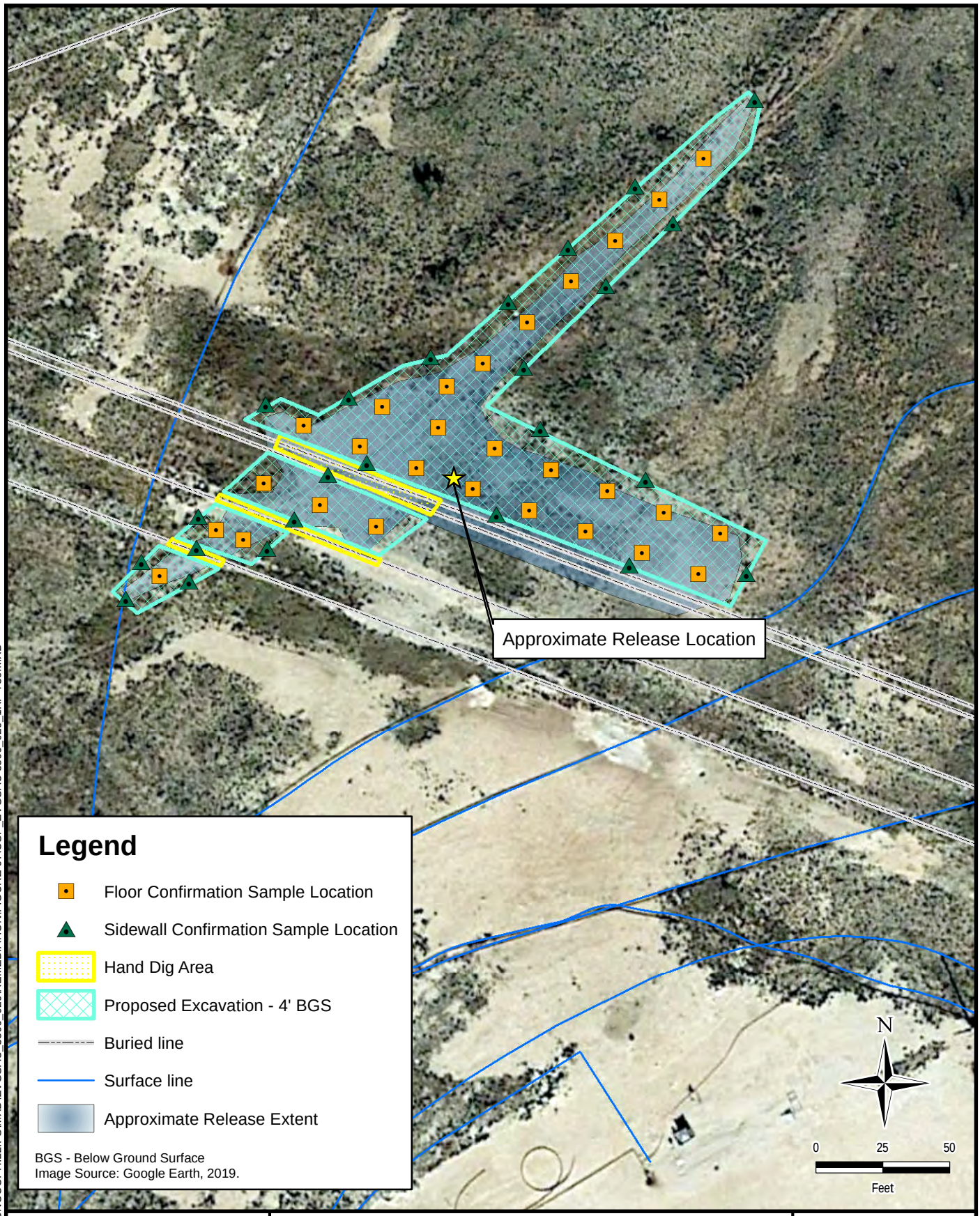
CONOCOPHILLIPS

1RP-739
(32.793358°, -103.470211°)
LEA COUNTY, NEW MEXICO

EVGSAU 3366-029 FLOWLINE RELEASE
PROPOSED REMEDIATION AREA

PROJECT NO.:	212C-AU-01576
DATE:	OCTOBER 13, 2020
DESIGNED BY:	AAM

Figure No.
5



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\EVGSAU_3366_029REMEDIATION\FIGURE 6 ACSP_EVGSAU 3366_029_1RP-739.MXD

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

CONOCOPHILLIPS

1RP-739
(32.793358°, -103.470211°)
LEA COUNTY, NEW MEXICO

EVGSAU 3366-029 FLOWLINE RELEASE
ALTERNATIVE CONFIRMATION SAMPLING PLAN

PROJECT NO.:	212C-AU-01576
DATE:	OCTOBER 13, 2020
DESIGNED BY:	AAM

Figure No.
6

TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
2004 INITIAL SOIL ASSESSMENT - 1RP-0739
CONOCOPHILLIPS
EVGSAU 3366-029 FLOWLINE RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride[1]		BTEX[2]										TPH[3]					
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO C_6 - C_{10}		DRO > C_{10} - C_{28}		Total TPH (GRO+DRO)	
		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	
SB1 @ 1'	5/5/2004	1	4240		< 0.005		< 0.005		< 0.005		< 0.005		-		< 10		37.1		37.1	
SB1 @ 15'	5/5/2004	15	2160		< 0.005		< 0.005		< 0.005		< 0.005		-		< 10		< 10		-	
SB1 @ 25'	5/5/2004	25	512		< 0.005		< 0.005		< 0.005		< 0.005		-		< 10		< 10		-	
SB2 @ 1'	5/12/2004	1	4160		< 0.005		0.070		0.117		0.297		0.484		< 10		431		431	
SB3 @ 1'	5/12/2004	1	1140		< 0.005		0.140		0.235		0.594		0.969		288		11,400		11,688	

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 SM4500Cl-B

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
2020 ADDITIONAL SOIL ASSESSMENT - 1RP-739
CONOCOPHILLIPS
EVGSAU 3366-029 FLOWLINE RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval	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
BH-20-1	5/20/2020	0-1	232		< 0.00107		< 0.00534		< 0.00267		< 0.00694		-		< 0.107		25.4		69.9		95.3
		2-3	***1170***		< 0.00111		< 0.00553		< 0.00277		< 0.00719		-		< 0.111		5.17		12.6		17.8
		4-5	574		< 0.00103		< 0.00516		< 0.00258		< 0.00671		-		< 0.103		< 4.13		2.60	J	2.60
		6-7	1870		< 0.00109		< 0.00546		< 0.00273		< 0.00710				< 0.109		< 4.37		0.632	J	0.632
		9-10	375		< 0.00105		< 0.00527		< 0.00264		0.00111	J	0.00111		< 0.105		< 4.22		0.958	J	0.958
		14-15	124		< 0.00103		< 0.00516		< 0.00258		< 0.00671		-		< 0.103		< 4.13		< 4.13		-
BH-20-1S	5/21/2020	0-1	103		< 0.00103		< 0.00517		< 0.00258		< 0.00671		-		< 0.103		7.71		18.8	B	26.5
		2-3	306		< 0.00106		< 0.00529		< 0.00265		< 0.00688		-		< 0.106		23.1		41.5		64.6
		4-5	3720		< 0.00108		< 0.00539		< 0.00270		< 0.00701		-		< 0.108		< 4.32		0.782	B J	0.782
BH-20-1W*	5/21/2020	0-1	< 21.0		< 0.00105		< 0.00524		< 0.00262		< 0.00681		-		0.0813	B J	10.6		20.4	B	31.1
		2-3	18.2		< 0.00102		< 0.00510		< 0.00255		< 0.00663		-		0.0567	B J	< 4.08		1.65	B J	1.71
		4-5	47.6		< 0.00103		< 0.00514		< 0.00257		< 0.00668		-		0.0497	B J	< 4.11		1.32	B J	1.37
		6-7	175		< 0.00105		< 0.00523		< 0.00261		< 0.00680		-		0.0463	B J	< 4.18		< 4.18		0.0463
		9-10	191		< 0.00104		< 0.00521		< 0.00261		< 0.00678		-		< 0.104		< 4.17		< 4.17		-
BH-20-2	5/20/2020	0-1	***1290***		< 0.00107		< 0.00537		< 0.00269		< 0.00698		-		< 0.107		351		750		***1101***
		2-3	***1320***		< 0.00111		< 0.00554		< 0.00277		< 0.00720		-		0.0623	B J	30.5		63.0		93.6
		4-5	1160		< 0.00103		< 0.00515		< 0.00258		< 0.00670		-		0.0572	B J	9.63		16.9		26.6
		6-7	875		< 0.00102		< 0.00512		< 0.00256		< 0.00665		-		0.0487	B J	2.07	J	3.00	J	5.12
		9-10	781		< 0.00101		< 0.00504		< 0.00252		< 0.00655		-		0.0540	B J	< 4.03		0.975	J	1.03
		14-15	1630		< 0.00104		< 0.00522		< 0.00261		< 0.00678		-		0.0646	B J	< 4.17		0.623	J	0.688
		19-20	2600		< 0.00118		< 0.00591		< 0.00296		< 0.00769		-		< 0.118		< 4.73		< 4.73		-
		24-25	1670		< 0.00103		< 0.00516		< 0.00258		< 0.00670		-		0.0537	B J	< 4.13		0.781	J	0.835
		29-30	2420		< 0.00106		< 0.00532		< 0.00266		< 0.00691		-		0.0697	B J	1.85	J	2.35	J	4.27
		39-40	400		< 0.00104		< 0.00522		< 0.00261		< 0.00679		-		0.0552	B J	2.85	J	5.37		8.28
BH-20-2W*	5/21/2020	0-1	128		< 0.00103		< 0.00517		< 0.00258		< 0.00672		-		< 0.103		2.58	J	5.61	B	8.19
		2-3	315		< 0.00102		< 0.00511		< 0.00256		< 0.00664		-		< 0.102		< 4.09		3.02	B J	3.02
		4-5	278		< 0.00105		< 0.00523		< 0.00261		< 0.00679		-		< 0.105		< 4.18		0.839	B J	0.839
BH-20-3	5/21/2020	0-1	93.0		< 0.00106		< 0.00530		< 0.00265		< 0.00689		-		< 0.106		9.77		19.3		29.1
		2-3	20.7		< 0.00103		< 0.00516		< 0.00258		< 0.00671		-		< 0.103		4.86		10.4		15.3
		4-5	65.5		< 0.00104		< 0.00520		< 0.00260		< 0.00676		-		< 0.104		2.47	J	2.47	J	4.94
BH-20-4	5/21/2020	0-1	27.8		< 0.00101		< 0.00507		< 0.00254		< 0.00659		-		0.0913	J	12.6		25.1		37.8
		2-3	19.8	J	< 0.00103		< 0.00514		< 0.00257		< 0.00668		-		< 0.103		7.70		21.1		28.8
		4-5	273		< 0.00103		< 0.00514		< 0.00257		< 0.00668		-		< 0.103		2.07	J	2.52	J	4.59
BH-20-5	5/21/2020	0-1	20.2	J	< 0.00104		< 0.00519		< 0.00260		< 0.00675		-		0.0262	J	605		977		***1582***
		3-4	< 20.7		< 0.00103		< 0.00516		< 0.00258		< 0.00671		-		< 0.103		22.6		38.6		61.2
		4-5	< 20.8		< 0.00104		< 0.00519		< 0.00260		< 0.00675		-		< 0.104		< 4.15	Q	1.13	J Q	1.13

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

* Analytical results from EVGSAU 3308-007 Flowline Release Soil Assessment & Delineation (NRM2008348428)
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.
Q Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
ADDITIONAL SOIL ASSESSMENT - 1RP-739
CONOCOPHILLIPS
EVGSAU 3366-029 FLOWLINE RELEASE
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[4]		DRO		ORO		TPH (GRO+DRO)	TPH (GRO+DRO+ORO)
		ft. bgs	Chloride	PID													C_3 - C_{10}		C_{10} - C_{28}		C_{28} - C_{40}			
			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	mg/kg
BH-8	10/10/19	0-1	134	2.4	53.7		< 0.00111		0.00529	B J	< 0.00278		< 0.00720		0.00529		< 0.110		4.84		19.6		4.84	24.4
		2-3	-	2.1	50.1		< 0.00105		0.00417	B J	< 0.00263		< 0.00684		0.00417		< 0.105		3.03	J	9.03		3.03	12.06
		4-5	63.8	4.9	59.9	J3	< 0.00105		0.00402	B J	< 0.00261		< 0.00680		0.00402		< 0.105		< 4.18		< 4.18		-	-
		6-7	-	4.1	505		< 0.00105		0.00474	B J	< 0.00263		< 0.00683		0.00474		< 0.105		< 4.16		< 4.16		-	-
		9-10	-	5.5	641		< 0.00107		0.00444	B J	< 0.00269		< 0.00699		0.00444		< 0.107		< 4.30		< 4.30		-	-
		14-15	66.5	6.2	72.0		< 0.00102		0.00446	B J	< 0.00255		< 0.00664		0.00446		< 0.102		< 4.09		< 4.09		-	-

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

1 Method 300.0
2 Method 8260B
3 Method 8015
4 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 estabioshed 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
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company **ConocoPhillips**	Contact **Stephen Wilson**
Address **HC60 Box 66, Lovington, NM**	Telephone No. **505-396-7962**
Facility Name **EVGSAU Well# 3366-029**	Facility Type **Oil and Gas**

Surface Owner State of NM	Mineral Owner	Lease No **30-025-02987--00-00**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	**33**	**17S**	**35E**					**Lea**

Latitude N 32° 47.600' Longitude W 103° 28.219'

NATURE OF RELEASE

Type of Release **Oil and Produced water**	Volume of Release **88bbl (26oil, 62water)**	Volume Recovered **(24oil, 61water)**
Source of Release **3" steel flowline External corrosion**	Date and Hour of Occurrence **03-29-04 9:00am**	Date and Hour of Discovery **03-29-04 10:00am**
Was Immediate Notice Given? ☒ Yes ☐ No ☒ Not Required	If YES, To Whom? **Sylvia Dickey**	
By Whom? **Rey Sosa**	Date and Hour **03-30-04 9:00am**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
3" steel flowline external corrosion . Vacuum truck out to pickn up free liquids and spread sand to secure area. No cattle present. Replace section(s) of 3"pipe around leak area and externally coat replacement pipe to protect from corrosion

Describe Area Affected and Cleanup Action Taken.*
92' x 95' of pasture. The well was shut-in and a vacuum truck dispatched to pick up free liquid. Other flowlines in the area will be assessed. The weather was clear and dry at the time of the leak with no cattle present.

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

Signature:	OIL CONSERVATION DIVISION	
Printed Name: **Stephen R. Wilson**	Approved by District Supervisor:	
Title: **Sr. SHEAR Specialist**	Approval Date:	Expiration Date:
E-mail Address: **Stephen.R.Wilson@ConocoPhillips.com**	Conditions of Approval:	Attached ☐
Date: **04-0-04** Phone: **505-396-7962**		

* Attach Additional Sheets If Necessary

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

☐ Extents of contamination must be fully delineated.

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

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

APPENDIX B
Site Characterization Data

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

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

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

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

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 04829 S5	L	LE	3	1		33	17S	35E	643347	3629400*	120	220	90	130
L 04880	L	LE	2	3		33	17S	35E	643757	3629002*	673	145	90	55
L 04578	L	LE				33	17S	35E	643962	3629198*	766	126	60	66

Average Depth to Water: **80 feet**

Minimum Depth: **60 feet**

Maximum Depth: **90 feet**

Record Count: 3

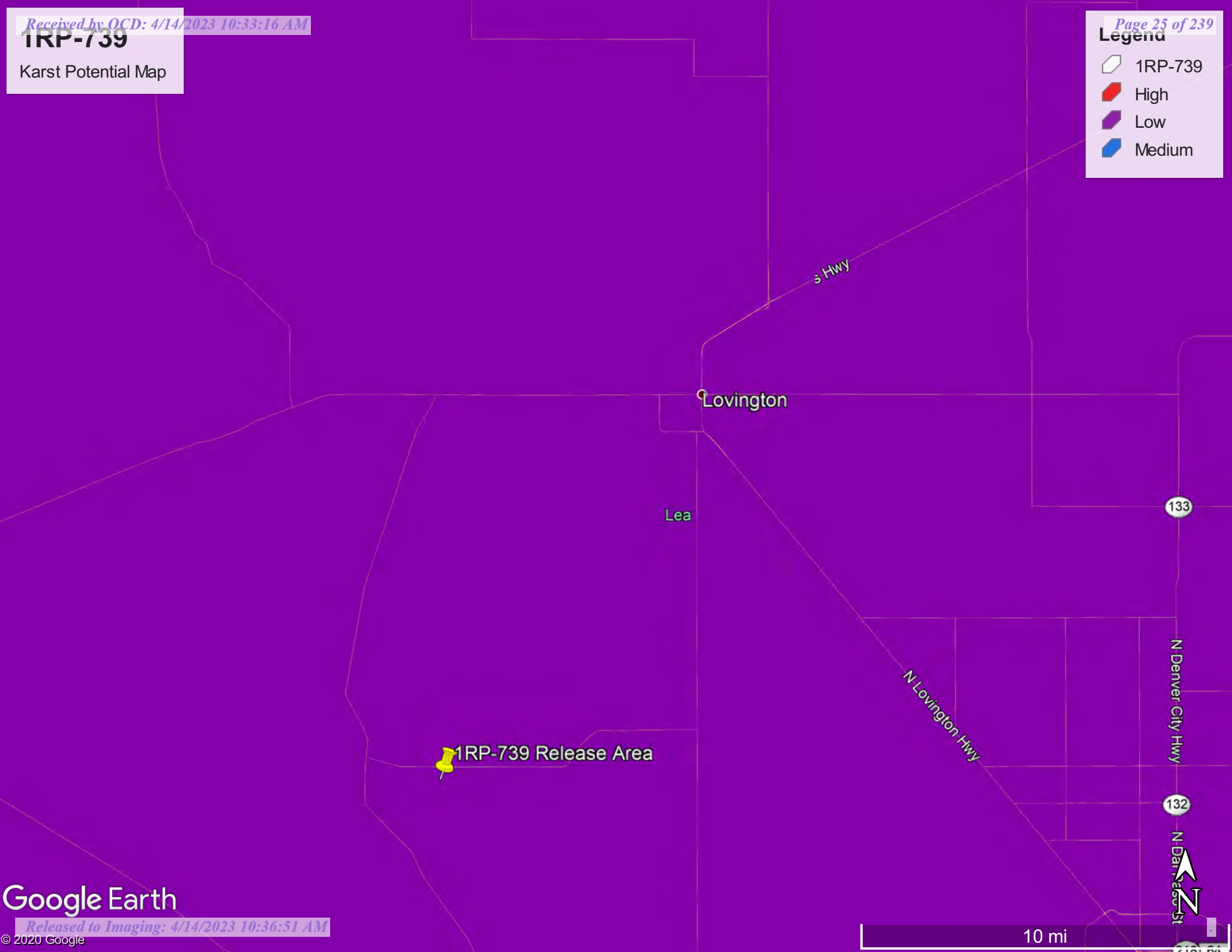
UTMNAD83 Radius Search (in meters):

Easting (X): 643227.957 **Northing (Y):** 3629419 **Radius:** 800

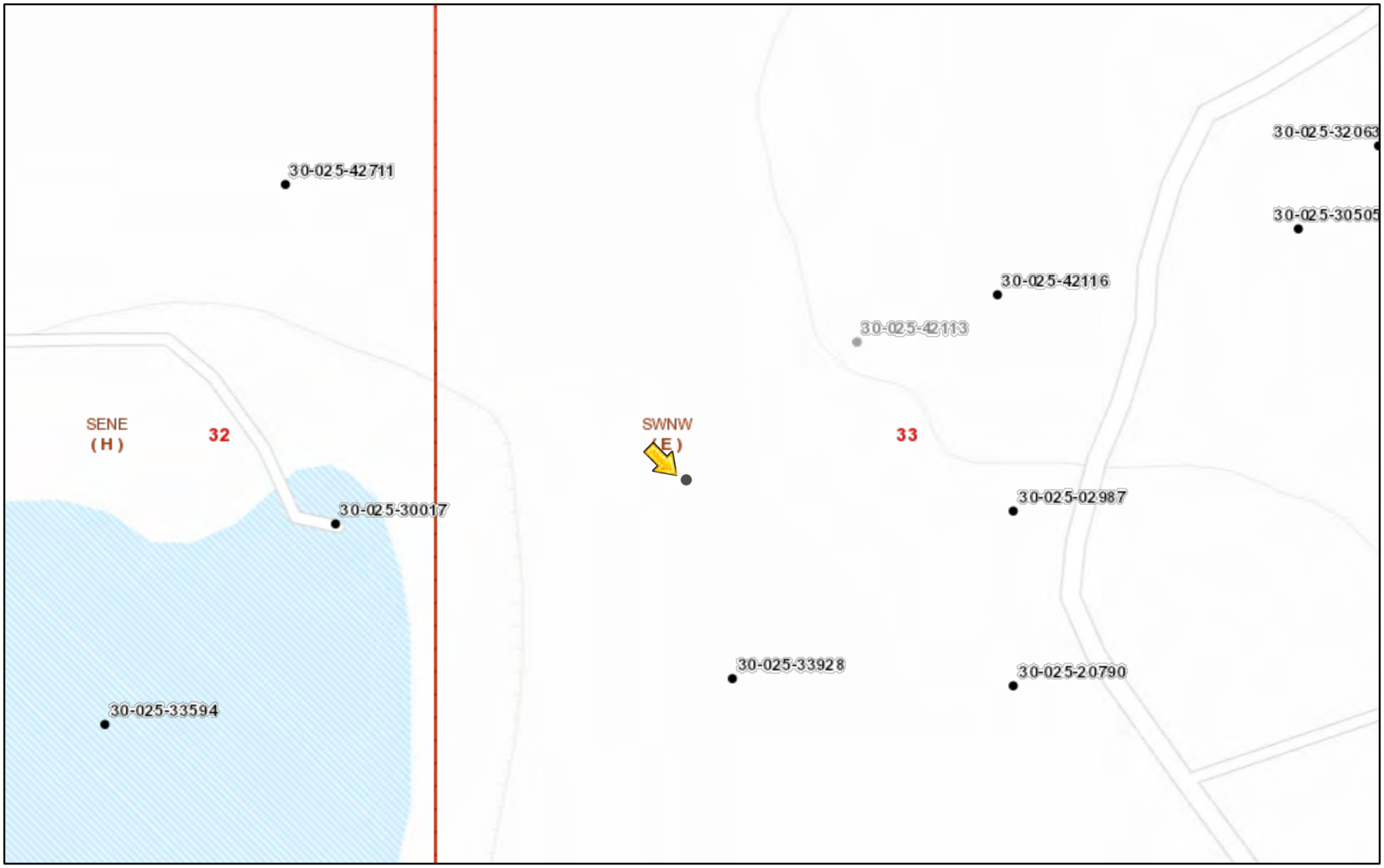
***UTM location was derived from PLSS - see Help**

1RP-739

Karst Potential Map



1RP-739



8/3/2020, 2:22:13 PM

1:2,257

0 0.01 0.03 0.06 mi

0 0.03 0.05 0.1 km

Override 1

Wells - Large Scale

undefined

Miscellaneous

CO2, Active

CO2, Cancelled

CO2, New

CO2, Plugged

CO2, Temporarily Abandoned

Gas, Active

Gas, Cancelled

Gas, New

Gas, Plugged

Gas, Temporarily Abandoned

Injection, Active

Oil Conservation Division of the New Mexico Energy, Minerals and Natural

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

APPENDIX C
2004 Environmental Site Assessment

BBC INTERNATIONAL
INCORPORATED

CONOCOPHILLIPS

EVGSAU WELL # 3366-029 (3-29-04)

ENVIRONMENTAL SITE INVESTIGATION

PERFORMED BY:

BBC INTERNATIONAL, INC.
WORLD-WIDE ENVIRONMENTAL SPECIALISTS
1324 W. MARLAND BLVD.
P. O. BOX 805
HOBBS, NEW MEXICO 88240
(505)397-6388 • FAX (505)397-0397
EMAIL: bbc@bbcinternational.com
WEBSITE: www.bbcinternational.com

JUNE 1, 2004

PREPARED FOR:

MR. STEPHEN R. WILSON
CONOCOPHILLIPS
29 VACUUM COMPLEX RD.
LOVINGTON, NEW MEXICO 88260-9613

Incident - nPAC0605541294
application - pPAC0605541521

ConocoPhillips
EVGSAU Well #3366-029
3-29-04

1.0 INTRODUCTION

The subject site is located east of Buckeye, New Mexico in Unit Letter E, of Section 33, Township 17 South, and Range 35 East. The site consists of undeveloped rangeland and petroleum production facilities. On March 29, 2004, the 3" steel flowline from well #3366-029 leaked approximately 26 bbls of oil and 62 bbls of water with approximately 24 bbls of oil and 61 bbls of water being recovered.

2.0 SITE CHARACTERIZATION

The leak area is approximately the shape of a T, the top area of which runs north to south and measures approximately 290 feet by 56 feet. The lower area runs east to west and measures approximately 118 feet by 30 feet. A sketch of the leak area including the sample points can be reviewed in Appendix II of this report. The surface soil is brown topsoil. There is no water source within 1,000 feet of the site. There is no surface water within 1,000 feet of the site. Based on data from the New Mexico Office of the State Engineer, there are seven water wells located in Section 33, Township 17 South, and Range 35 East. The depth to groundwater in these wells ranges from 50 to 90 feet. The bedrock in the Buckeye area is very shallow and at this site it is approximately one foot below the surface of the topsoil.

3.0 SITE INVESTIGATION ACTIVITIES

On May 4, 2004, BBC personnel conducted an inspection of the site. Three samples were taken at the site from a soil boring in the center of the leak area. The soil boring was drilled with an air rotary drill to a total depth of 25 feet. The three samples were taken from the soil boring at a depth of one foot, 15 feet, and 25 feet. The samples were taken to Cardinal Laboratories and analyzed for BTEX, TPH (GRO and DRO), and Chlorides. Laboratory analysis for SB1 @ 1' is: GRO – non detect, DRO – 37.1 ppm, and Chlorides – 4240 ppm. Laboratory analysis for SB1 @ 15' is: GRO - non detect, DRO – non detect, and Chlorides – 2160 ppm. Laboratory analysis for SB1 @ 25' is: GRO – non detect, DRO – non detect, and Chlorides – 512 ppm. BTEX analysis is non detect for all samples. Laboratory analytical results for this sampling event, as well as, the drilling log for the soil boring can be reviewed in Appendix I of this report. The soil boring location can be reviewed on the site diagram in Appendix II of this report.

A second sampling event was conducted by BBC personnel on May 12, 2004. Two samples were taken, both at a depth of approximately 1 foot. Sample Point 1 was taken from the west end of the leak site and Sample Point 2 was taken from the east end of the leak site. The samples were taken to Cardinal Laboratories and analyzed for BTEX, TPH (GRO and DRO), and Chlorides. Laboratory analysis for SP1-1' is: GRO – non detect, DRO – 431 ppm, Chlorides – 4160 ppm, Benzene – non detect, Toluene – 0.070 ppm, Ethyl Benzene – 0.117 ppm, and Total Xylenes – 0.297 ppm. Laboratory analysis for SP2-1' is: GRO – 288 ppm, DRO – 11,400 ppm, Chlorides – 1140 ppm, Benzene – non detect, Toluene – 0.140 ppm, Ethyl Benzene – 0.235 ppm, and Total Xylenes - 0.594 ppm. Laboratory analytical results for this sampling event can be reviewed in Appendix I of this report and their locations can be seen in the site diagram located in Appendix II of this report.

4.0 CONCLUSION AND RECOMMENDATION

The laboratory data for this site indicates that the area of greatest contamination is in the near surface portion of the leak area. Taking into consideration that the depth to groundwater is greater than 50 feet and the existence of the rock layer at a depth of approximately one foot below ground surface, the evidence indicates that the migration of contamination to groundwater is unlikely. Therefore it is recommended that approximately 1 foot of topsoil, down to the rock layer, be removed and disposed of. This soil would be transported to an OCD approved landfarm or disposal site. The excavated area would then be backfilled with clean topsoil and reseeded with the appropriate BLM seed mix and the site would be closed.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company **ConocoPhillips**	Contact **Stephen Wilson**
Address **HC60 Box 66, Lovington, NM**	Telephone No. **505-396-7962**
Facility Name **EVGSAU Well# 3366-029**	Facility Type **Oil and Gas**

Surface Owner State of NM	Mineral Owner	Lease No **30-025-02987--00-00**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	**33**	**17S**	**35E**					**Lea**

Latitude N 32° 47.600' Longitude W 103° 28.219'

NATURE OF RELEASE

Type of Release **Oil and Produced water**	Volume of Release 88bbl (26oil, 62water)	Volume Recovered (24oil, 61water)
Source of Release **3" steel flowline External corrosion**	Date and Hour of Occurrence **03-29-04 9:00am**	Date and Hour of Discovery **03-29-04 10:00am**
Was Immediate Notice Given? ☒ Yes ☐ No ☒ Not Required	If YES, To Whom? **Sylvia Dickey**	
By Whom? **Rey Sosa**	Date and Hour **03-30-04 9:00am**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
3" steel flowline external corrosion . Vacuum truck out to pickn up free liquids and spread sand to secure area. No cattle present. Replace section(s) of 3"pipe around leak area and externally coat replacement pipe to protect from corrosion

Describe Area Affected and Cleanup Action Taken.*
92' x 95' of pasture. The well was shut-in and a vacuum truck dispatched to pick up free liquid. Other flowlines in the area will be assessed. The weather was clear and dry at the time of the leak with no cattle present.

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

Signature:	OIL CONSERVATION DIVISION	
Printed Name: **Stephen R. Wilson**	Approved by District Supervisor:	
Title: **Sr. SHEAR Specialist**	Approval Date:	Expiration Date:
E-mail Address: **Stephen.R.Wilson@ConocoPhillips.com**	Conditions of Approval:	Attached ☐
Date: **04-0-04** Phone: **505-396-7962**		

* Attach Additional Sheets If Necessary

ConocoPhillips

Permian Basin Asset

Record of Accidental Discharge of Crude Oil, Water or Hazardous Substances

Lease: **EVGSAU** **Well # 3366-029**	Lease # **30-025-02987--00-00** (API, RRC, State, or Federal)	Field:
Discovered By: **Eddy Evans**	Date and Time Discovered: **03-29-04 @ 10:00pm**	
Date and Time Discharge Began: **03-29-04 @ 9:00pm**	Date and Time Discharge Ended: **03-29-04 @ 10:30pm**	
Discharge Site: Unit Letter **E** Sec. **33** Blk/TWP **17S** Survey/Range **35E** County/State: **Lea, New Mexico**		
Latitude **N 32 47.600** Longitude **W103 28.219**		
Highway Map Location: **West 30 miles of Hobbs to Buckeye office. West on CR50 to plant entrance go West around plant .5 mile.**		
Location Of Discharge: **3" steel flowline**	☒ Flowline —— **180** Feet to Nearest Wellhead Number **3366-029** ☐ Injection. Line Feet to Nearest Wellhead Number	
Specific Source of Discharge: **Flowline**		
Describe Cause of Discharge : **External corrosion**		
Actions taken to Prevent Reoccurrence: **Replace section(s) of 3"pipe around leak area and externally coat replacement pipe to protect from corrosion**		
Describe Nature and Extent of Area Affected: **92' ' x 95' Pasture**		
Weather Conditions: **Clear and Dry**		
Clean-Up Action Taken: **Vacuum truck out to clean up free liquids and spread sand to secure area. No cattle present**		
Remediation Action Taken: **A determination will be made as to the need for any further action. If further action is deemed necessary a follow up report will be filed. No cattle in the area.**		

Specific Source of Discharge

☒ Flowline	☐ Pump	
☐ Tank Piping	☐ Vessel	
☐ Vessel Piping	☐ Chemical Storage Container	
☐ Line Check Valve	☐ Chemical Injection Equipment	
☐ Wellhead Connections	☐ Casing/Tubing Communication	
☐ Tank	☐ Other:	

Possible Reasons For Failure

☒ Corrosion	☐ Human Error	
☒ External	☐ Pressure	
☐ Internal	☐ Instrumentation	
☐ Fatigue	☐ Mechanical	
☐ Age	☐ Weather	

Cost of Cleanup/Repair: **$1000**

Pipe Size = **3** inches

☒ Steel	☐ Buried	☐ Coated	☐ Plastic Lined
☐ Fiberglass	☒ Surface	☐ Internal	☐ Fiberglass
☐ Plastic	☐ Bare	☐ External	☐ Was Line Chemically Treated
☐ Transite		☐ Cement Lined	☐ Other

Names and Volumes of Substances Spilled	**Remedial Action Picked Up**				
26 BBL Oil 62 BBL Produced Water	24 BBL Oil 61 BBL Produced Water			Contained in Dike? ☐ Yes	☒ No
Gallons Chemical Spilled	Gallons Chemical			MFG/Chemical Name:	
Gas Volume Released (MCF)	☐ Gas Leak	☐ Blowdown	☐ Upset		
Other – Explain:					

Federal, State, and Local Agencies Notified: Job Number

Agency	Person Notified	Date and Time Notified	Method Used		Person Notifying
NMOCD	**Sylvia Dickey**	**03-30-04 @ 9:00am**	☒ Phone	☐ Fax	**Rey Sosa**
		@	☐ Phone	☐ Fax	
		@	☐ Phone	☐ Fax	

Landowner/Tennant: Telephone No.

I Hereby Certify That The Above Information Is True To The Best Of My Knowledge. PBBU Discharge Report Form 10-24-03

Signature: Steve Wilson

DB File Nbr / Number	Use / Source	Diversion / Tws	Rng	Sec	q	q	q	Owner / Zone	X / Well	Y / Water	
UTM_Zone	Easting	Northing	Date				Date				
L 04578	PRO	3	SHOENFELD-HUNTER-KITCH DRLG.CO								L
04578	Shallow	17S	35E	33							
13	644016	3628991	01/12/1961				01/12/1961		126	60	
											L
04578 APPRO	Shallow	17S	35E	33							
13	644016	3628991	01/12/1961				01/14/1961		126	60	
L 04586	PRO	3	HONDO DRILLING								L
04586	Shallow	17S	35E	33	4	3	3				
13	644115	3628294	01/16/1961				01/18/1961		125	50	
											L
04586 APPRO	Shallow	17S	35E	33	4	3	3				
13	644115	3628294	01/16/1961				01/18/1961		125	50	
L 04633	PRO	0	HONDO DRILLING COMPANY								L
04633 APPRO	Shallow	17S	35E	33	4	2					
13	644612	3628803	04/20/1961				04/20/1961		130	65	
L 04880	PRO	0	HONDO DRILLING CO.								L
04880	Shallow	17S	35E	33	3	2					
13	643809	3628797	04/18/1960				04/18/1962		145	90	
L 05834	IND	1150	SOUTHWESTERN PUBLIC SERVICE								L
05834		17S	35E	33	4						
13	644417	3628596									
L 07785	IND	0	SOUTHWESTERN PUBLIC SERVICE CO								L
07785		17S	35E	33	4	3					
13	644216	3628395							225		
L 08045	SAN	0	PHILLIPS PETROLEUM COMPANY								L
08045 EXP		17S	35E	33	2	1	4				
13	644297	3629507									

APPENDIX I

Laboratory Analytical Results
May 2004

EVGSAU WELL #3366-029 (3-29-04)
Buckeye, New Mexico

Prepared for:
ConocoPhillips
Lovington, New Mexico

2004

Prepared by:
BBC International, Inc.

CARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BBC INTERNATIONAL, INC.
ATTN: CLIFF BRUNSON
P.O. BOX 805
HOBBS, NM 88241
FAX TO: (505) 397-0397

Receiving Date: 05/05/04
Reporting Date: 05/06/04
Project Owner: CONOCO PHILLIPS
Project Name: EVGSAU 3366-029
Project Location: BUCKEYE, NM

Sampling Date: 05/04/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/Kg)	DRO (>C_{10}-C_{28}) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE		05/05/04	05/05/04	05/06/04
H8663-1	SB1 @ 1'	<10	37.1	4240
H8663-2	SB1 @ 15'	<10	<10	2160
H8663-3	SB1 @ 25'	<10	<10	512
Quality Control		737	746	1010
True Value QC		800	800	1000
% Recovery		92.2	93.3	101
Relative Percent Difference		6.0	7.8	3.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl: Std. Methods 4500-ClB
*Analyses performed on 1:4 w:v aqueous extracts.

Chemist

5/6/04
Date

H8663A.XLS

CARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BBC INTERNATIONAL, INC.
ATTN: CLIFF BRUNSON
P.O. BOX 805
HOBBS, NM 88241
FAX TO: (505) 397-0397

Receiving Date: 05/05/04
Reporting Date: 05/06/04
Project Owner: CONOCO PHILLIPS
Project Name: EVGSAU 3366-029
Project Location: BUCKEYE, NM

Sampling Date: 05/04/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		05/05/04	05/05/04	05/05/04	05/05/04
H8663-1	SB1 @ 1'	<0.005	<0.005	<0.005	<0.015
H8663-2	SB1 @ 15'	<0.005	<0.005	<0.005	<0.015
H8663-3	SB1 @ 25'	<0.005	<0.005	<0.005	<0.015
Quality Control		0.101	0.092	0.090	0.268
True Value QC		0.100	0.100	0.100	0.300
% Recovery		101	92.2	90.0	89.3
Relative Percent Difference		1.7	3.6	2.0	1.2

METHOD: EPA SW-846 8260

Chemist

5/6/04
Date

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL LABORATORIES, INC.
2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page 1 of 1

Company Name:	BAC International Inc.
Project Manager:	Clint Brunson
Address:	1324 W. Marland
City:	Hobbs State: N.M. Zip: 88240
Phone #:	(505) 397-6388 Fax #: (505) 397-0397
Project #:	— Project Owner: ConocoPhillips
Project Name:	EUNICE SAU 3966-029
Project Location:	Buckeye N.M.
Sampler Name:	Ken Seminary

BILL TO

P.O. #:	
Company:	
Attn:	
Address:	SAME
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	TPH 8015M	BTEX	Chlorides
H6663-1	SB1 @ 1'	G	1			✓					✓		5-4-04	12:20	✓	✓	✓
-2	SB1 @ 15'	G	1			✓					✓		5-4-04	13:00	✓	✓	✓
-3	SB1 @ 25'	G	1			✓					✓		5-4-04	13:25	✓	✓	✓

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collection, including attorney's fees.

Sampler Relinquished: Ken Seminary	Date: 5-5-04 Time: 10:00	Received By: Roger Hall	
Relinquished By: Roger Hall	Date: 5-5-04 Time: 10:40	Received By: (Lab Staff)	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No	CHECKED BY: (Initials)

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

WHITE DRILLING COMPANY, INC.

ENVIRONMENTAL/GEOTECHNICAL DAILY DRILLING SHEET

Page 1 of 2

Client: BBC International, Inc.

Project: ConocoPhillips EVGSAU 3366-029			Date Started: 5/04/04		Well No.: SB-1
Project Address: Lea County, NM State/City/Zip:			Date Completed: 5/04/04		Total Depth: 25.0
Well Owner: ConocoPhillips			Driller: Bo Atkins NM Lic. WD-1456		Hole Diameter: 6 1/8"
Owner Address: P.O. Box 180 State/City/Zip: Maljamar, NM 88264			Driller's Helpers: Randy Allen Bobby Strayley		Logged By: Bo Atkins
WELL COMPLETION DATA			**WELL PLUGGING DATA**		
Diameter:	Screen Slot:	PVC or Steel Schedule:	Casing left in well (ft):		Total Casing Pulled (ft):
Screen Depth:	Sand Feet/Bags: /	Sand Size:	Bentonite Feet/bags: 25.0- 15.0 / 4 15.0- 2.0 cuttings		Cement Feet/Bags: 2.0- 0.0 / 1
Riser Depth:	Bentonite Feet/Bags: /	Cement Feet/Bags: /	**GPS: N-** 32-47-36.0 **W-** 103-28-13.2		Total Disposal Drums: 0
Surface Csg. Dia:	Surface Casing Depth:	Cement Feet/Bags: /	Water Level: Dry	☒ Clean	☐ Dirty

DEPTH (ft.)	DESCRIPTION
0.0 - 2.0	Brown clayey sand.
2.0 - 17.0	Tan sand w/caliche & limestone.
17.0 - 25.0	Tan sand & sandstone.

CARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BBC INTERNATIONAL, INC.
ATTN: CLIFF BRUNSON
P.O. BOX 805
HOBBS, NM 88241
FAX TO: (505) 397-0397

Receiving Date: 05/12/04
Reporting Date: 05/13/04
Project Owner: CONOCO PHILLIPS
Project Name: EVGSAU #3366-029
Project Location: BUCKEYE, NM

Sampling Date: 05/12/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/Kg)	DRO (>C_{10}-C_{28}) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE		05/12/04	05/12/04	05/13/04
H8688-1	SP 1-1' (029)	<10.0	431	4160
H8688-2	SP 2-1' (029)	288	11400	1140
Quality Control		765	779	1030
True Value QC		800	800	1000
% Recovery		95.7	97.4	103
Relative Percent Difference		5.8	6.3	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl^-: Std. Methods 4500-Cl^-B
*Analyses performed on 1:4 w:v aqueous extracts.

Chemist

5/13/04
Date

H8688A.XLS

CARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BBC INTERNATIONAL, INC.
ATTN: CLIFF BRUNSON
P.O. BOX 805
HOBBS, NM 88241
FAX TO: (505) 397-0397

Receiving Date: 05/12/04
Reporting Date: 05/13/04
Project Owner: CONOCO PHILLIPS
Project Name: EVGSAU #3366-029
Project Location: BUCKEYE, NM

Sampling Date: 05/12/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		05/12/04	05/12/04	05/12/04	05/12/04
H8688-1	SP 1-1' (029)	<0.005	0.070	0.117	0.297
H8688-2	SP 2-1' (029)	<0.005	0.140	0.235	0.594
Quality Control		0.100	0.096	0.093	0.275
True Value QC		0.100	0.100	0.100	0.300
% Recovery		99.7	95.5	92.5	91.5
Relative Percent Difference		6.8	1.9	1.1	<0.1

METHOD: EPA SW-846 8260

Chemist

5/13/04
Date

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL LABORATORIES, INC.
2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

		BILL TO	
Company Name:	BBC International, Inc.	P.O. #:	
Project Manager:	Cliff Brunson	Company:	
Address:	1324 W. Marland	Attn:	Same
City:	Hobbs State: NM Zip: 88240	Address:	
Phone #:	505-397-6388 Fax #: 505-397-0397	City:	
Project #:	— Project Owner: ConocoPhillips	State:	Zip:
Project Name:	EVGSAU #336-029	Phone #:	
Project Location:	Buckeye, NM	Fax #:	
Sampler Name:	Ken Sweeney		

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST													
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH 8015M	BTEX	Chloride											
H8688-1	SP1-1' (029)	G	1			✓					✓		5-12-04	8:59 am	✓	✓	✓											
-2	SP2-1' (029)	G	1			✓					✓		5-12-04	9:10 am	✓	✓	✓											

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past date at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date:	Received By:	Phone Result: ☐ Yes ☐ No	Add'l Phone #:	
	Time:		Fax Result: ☐ Yes ☐ No	Add'l Fax #:	
Relinquished By: Ken Sweeney	Date: 5-12-04	Received By: (Lab Staff)	REMARKS:		
	Time: 11:37				
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No	CHECKED BY: (Initials)		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

APPENDIX II

Site Diagram
May 2004

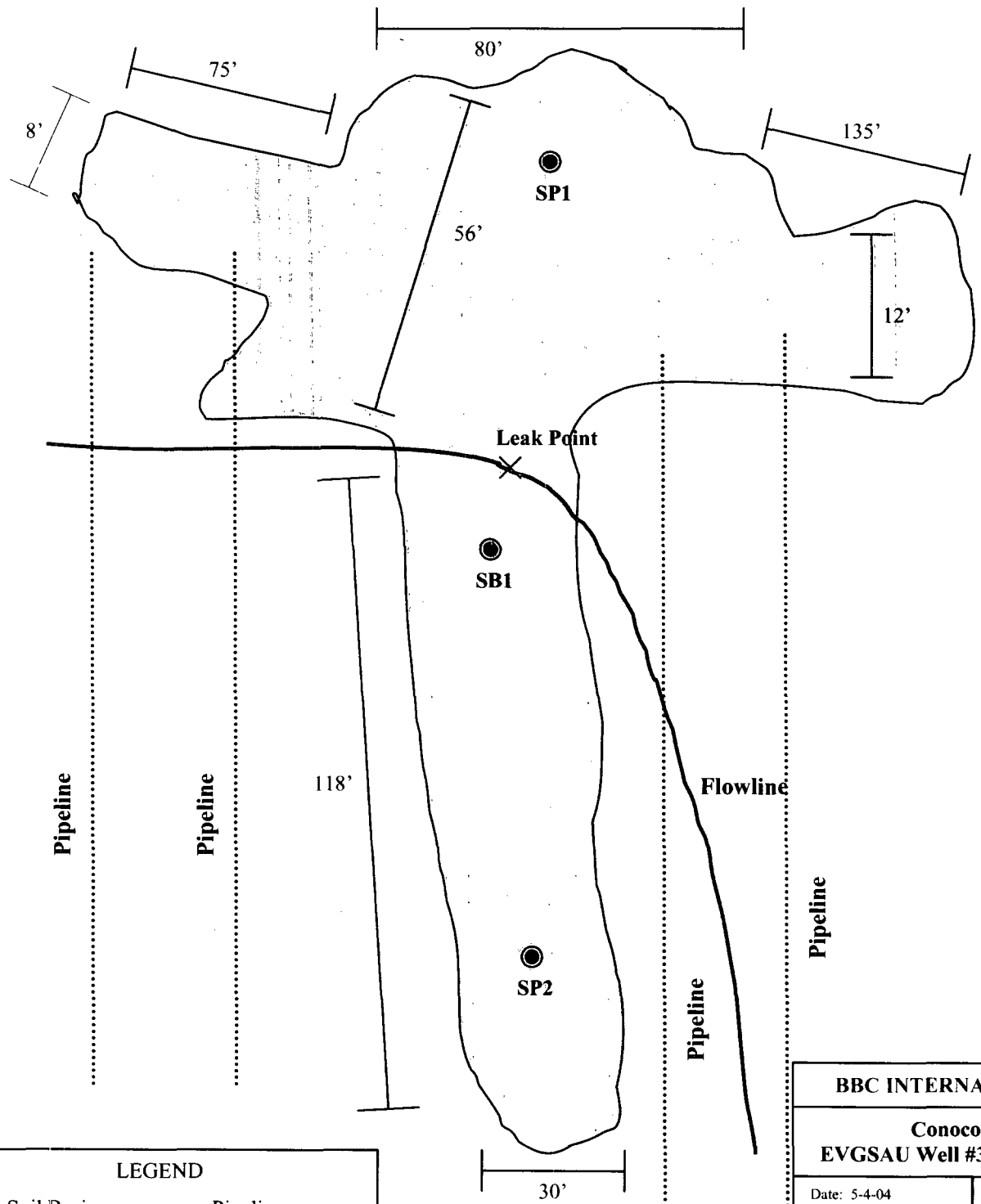
EVGSAU WELL #3366-029 (3-29-04)
Buckeye, New Mexico

Prepared for:
ConocoPhillips
Lovington, New Mexico

2004

Prepared by:
BBC International, Inc.

CONOCOPHILLIPS
EVGSAU WELL #3366-029
3-29-04



BBC INTERNATIONAL, INC.	
ConocoPhillips EVGSAU Well #3366-029 (3-29-04)	
Date: 5-4-04	Drawn By: JC
Disk:	Sheet 1 of 1 Sheets
Scale: Not to Scale	File Name

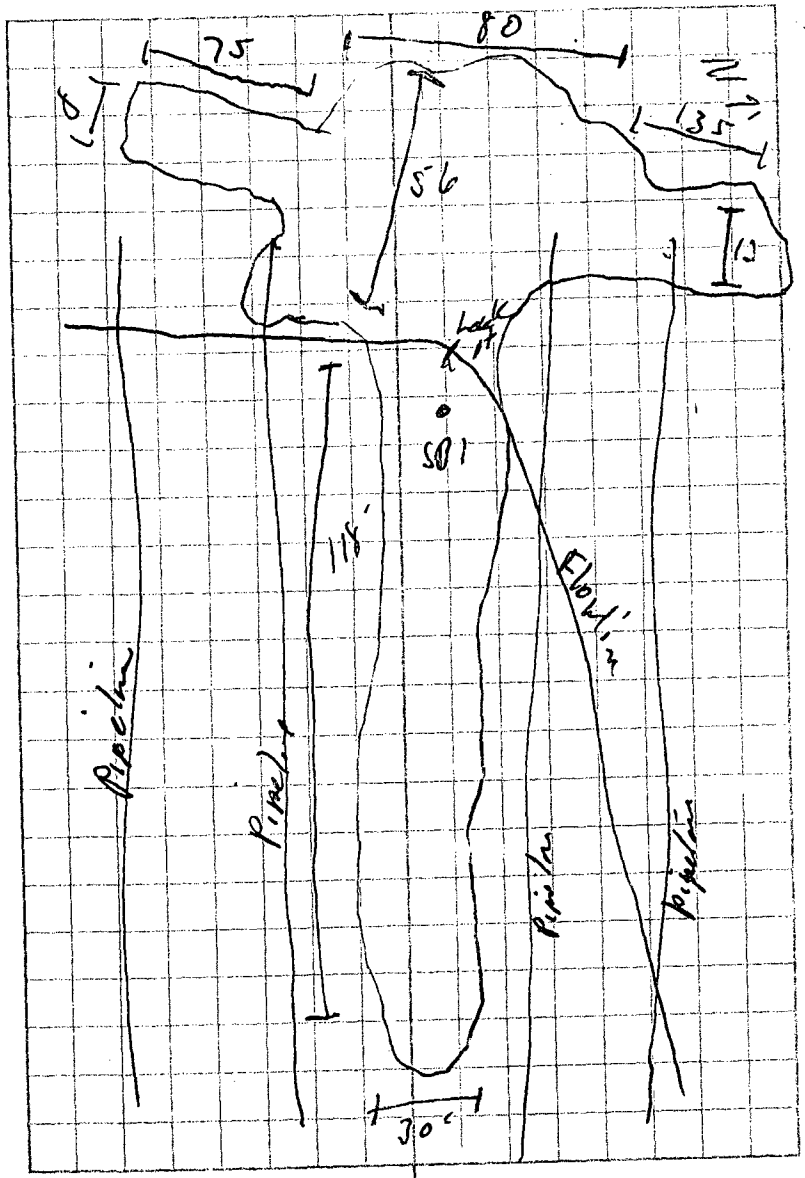
Location Buckeye N. M. Date 5-4-04

Project / Client EVGSAU 3366-029 / ConocoPhillips

Sample #	depth	time	date	Field Cl	Odor
SB1-1'	1'	12:20	5-4-04	4560	Odor
SB1-3'	3'	11:27	5-4-04	4800	Slight
SB1-5'	5'	12:30	5-4-04	4200	NONE
SB1-10'	10'	12:37	5-4-04	4200	NONE
SB1-15'	15'	13:00	5-4-04	2600	NONE
SB1-20'	20'	13:05	5-4-04	2600	NONE
SB1-25'	25'	13:25	5-4-04	600	NONE

Location Date

Project / Client



Location Buckeye N. M. Date 5-4-04

Project / Client EVGSAU 3366-029 / ConocoPhillips

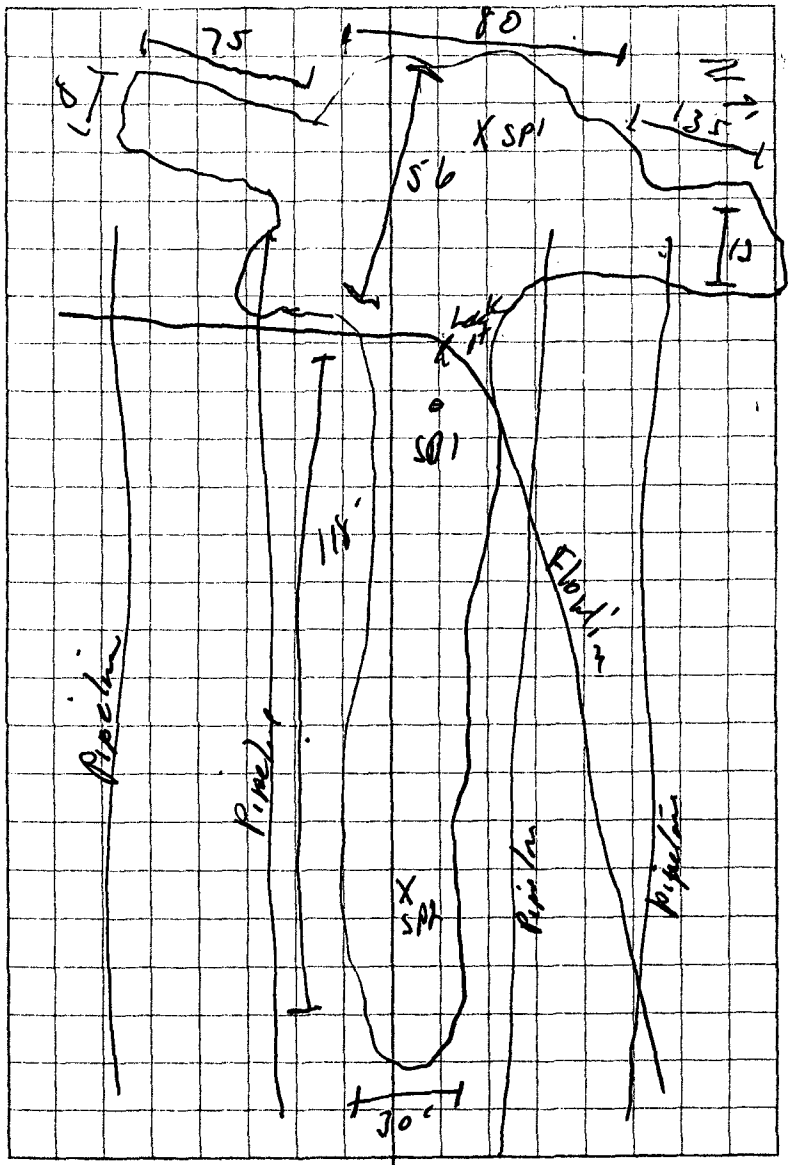
Sample #	depth	time	date	Field Cl	Odor
SP1-1'	1'	12:20	5-4-04	4560	Odor
SP1-3'	3'	12:27	5-4-04	4800	Slight
SP1-5'	5'	12:30	5-4-04	4200	None
SP1-10'	10'	12:33	5-4-04	4200	None
SP1-15'	15'	13:00	5-4-04	2600	None
SP1-20'	20'	13:05	5-4-04	2600	None
SP1-25'	25'	13:25	5-4-04	600	None

Additional Samples on 5-12-04

Sample #	depth	time	date
SP1-1'	1'		5-12-04
SP2-1'	1'		5-12-04

Location Date 141

Project / Client



APPENDIX D
Laboratory Analytical Data

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

October 24, 2019

ConocoPhillips - Tetra Tech

Sample Delivery Group:	L1150129
Samples Received:	10/15/2019
Project Number:	212C-MD-01929
Description:	COP EVGSAU 3308-007

Report To: Christinal 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

BH-1 (0'-1') L1150129-01 Solid

Collected by: JT | Collected date/time: 10/09/19 10:30 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367010	1	10/23/19 13:23	10/23/19 13:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1363957	5	10/17/19 00:15	10/17/19 12:54	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1364933	1.01	10/16/19 08:13	10/19/19 15:15	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367577	1.01	10/16/19 08:13	10/23/19 15:30	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365477	1	10/18/19 15:53	10/19/19 02:34	KME	Mt. Juliet, TN

BH-1 (2'-3') L1150129-02 Solid

Collected by: JT | Collected date/time: 10/09/19 10:40 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367010	1	10/23/19 13:23	10/23/19 13:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1363957	1	10/17/19 00:15	10/17/19 13:09	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1364933	1	10/16/19 08:13	10/19/19 15:35	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367577	1	10/16/19 08:13	10/23/19 15:50	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365477	1	10/18/19 15:53	10/19/19 00:09	KME	Mt. Juliet, TN

BH-1 (4'-5') L1150129-03 Solid

Collected by: JT | Collected date/time: 10/09/19 10:50 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367010	1	10/23/19 13:23	10/23/19 13:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1363957	1	10/17/19 00:15	10/17/19 14:34	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1364933	1	10/16/19 08:13	10/19/19 15:55	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367577	1	10/16/19 08:13	10/23/19 16:10	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365477	1	10/18/19 15:53	10/19/19 00:22	KME	Mt. Juliet, TN

BH-1 (6'-7') L1150129-04 Solid

Collected by: JT | Collected date/time: 10/09/19 11:00 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367010	1	10/23/19 13:23	10/23/19 13:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1363957	1	10/17/19 00:15	10/17/19 14:49	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1364933	1	10/16/19 08:13	10/19/19 16:16	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367577	1.01	10/16/19 08:13	10/23/19 16:29	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365477	1	10/18/19 15:53	10/19/19 00:35	KME	Mt. Juliet, TN

BH-1 (9'-10') L1150129-05 Solid

Collected by: JT | Collected date/time: 10/09/19 11:10 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367011	1	10/23/19 15:59	10/23/19 16:08	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1363957	1	10/17/19 00:15	10/17/19 15:05	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1364945	1.02	10/16/19 08:13	10/18/19 13:30	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367577	1	10/16/19 08:13	10/23/19 16:49	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365477	1	10/18/19 15:53	10/19/19 00:49	KME	Mt. Juliet, TN

BH-2 (0'-1') L1150129-06 Solid

Collected by: JT | Collected date/time: 10/09/19 11:30 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367011	1	10/23/19 15:59	10/23/19 16:08	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1363957	100	10/17/19 00:15	10/17/19 16:07	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1364945	1	10/16/19 08:13	10/18/19 14:04	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367577	1	10/16/19 08:13	10/23/19 17:08	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365477	20	10/18/19 15:53	10/19/19 03:26	KME	Mt. Juliet, TN

BH-2 (2'-3') L1150129-07 Solid

Collected by: JT | Collected date/time: 10/09/19 11:40 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367011	1	10/23/19 15:59	10/23/19 16:08	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1363957	5	10/17/19 00:15	10/17/19 16:22	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365589	100	10/16/19 08:13	10/19/19 23:42	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367577	8	10/16/19 08:13	10/23/19 21:39	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365477	20	10/18/19 15:53	10/19/19 03:39	KME	Mt. Juliet, TN

BH-2 (4'-5') L1150129-08 Solid

Collected by: JT | Collected date/time: 10/09/19 11:50 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367011	1	10/23/19 15:59	10/23/19 16:08	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1363957	1	10/17/19 00:15	10/17/19 16:37	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1364945	1.02	10/16/19 08:13	10/18/19 14:26	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367577	1	10/16/19 08:13	10/23/19 17:28	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365477	1	10/18/19 15:53	10/19/19 01:02	KME	Mt. Juliet, TN

BH-2 (6'-7') L1150129-09 Solid

Collected by: JT | Collected date/time: 10/09/19 12:00 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367011	1	10/23/19 15:59	10/23/19 16:08	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1363957	1	10/17/19 00:15	10/17/19 16:53	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1364945	1	10/16/19 08:13	10/18/19 15:50	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367577	1	10/16/19 08:13	10/23/19 17:47	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365477	1	10/18/19 15:53	10/19/19 01:15	KME	Mt. Juliet, TN

BH-2 (9'-10') L1150129-10 Solid

Collected by: JT | Collected date/time: 10/09/19 12:10 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367011	1	10/23/19 15:59	10/23/19 16:08	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1363957	5	10/17/19 00:15	10/17/19 17:39	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1364945	1	10/16/19 08:13	10/18/19 16:12	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367577	1	10/16/19 08:13	10/23/19 18:06	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365477	1	10/18/19 15:53	10/19/19 01:28	KME	Mt. Juliet, TN

BH-2 (14'-15') L1150129-11 Solid

Collected by: JT | Collected date/time: 10/09/19 12:20 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367011	1	10/23/19 15:59	10/23/19 16:08	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1363957	1	10/17/19 00:15	10/17/19 17:55	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1364945	1	10/16/19 08:13	10/18/19 16:58	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367888	1	10/16/19 08:13	10/23/19 12:49	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365477	1	10/18/19 15:53	10/19/19 01:41	KME	Mt. Juliet, TN

BH-3 (0'-1') L1150129-12 Solid

Collected by: JT | Collected date/time: 10/09/19 12:40 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367011	1	10/23/19 15:59	10/23/19 16:08	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1363957	5	10/17/19 00:15	10/17/19 18:10	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1364945	1	10/16/19 08:13	10/18/19 17:21	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367888	1	10/16/19 08:13	10/23/19 13:10	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365477	1	10/18/19 15:53	10/19/19 03:13	KME	Mt. Juliet, TN

BH-3 (2'-3') L1150129-13 Solid

Collected by: JT | Collected date/time: 10/09/19 12:50 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367011	1	10/23/19 15:59	10/23/19 16:08	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1363957	5	10/17/19 00:15	10/17/19 18:26	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1364945	1	10/16/19 08:13	10/18/19 18:07	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367888	1	10/16/19 08:13	10/23/19 13:30	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365477	1	10/18/19 15:53	10/19/19 01:54	KME	Mt. Juliet, TN

BH-3 (4'-5') L1150129-14 Solid

Collected by: JT | Collected date/time: 10/09/19 13:00 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367011	1	10/23/19 15:59	10/23/19 16:08	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1363957	1	10/17/19 00:15	10/17/19 18:41	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365975	1.01	10/16/19 08:13	10/20/19 12:00	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367888	1	10/16/19 08:13	10/23/19 13:51	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365477	1	10/18/19 15:53	10/19/19 02:08	KME	Mt. Juliet, TN

BH-3 (6'-7') L1150129-15 Solid

Collected by: JT | Collected date/time: 10/09/19 13:10 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367012	1	10/23/19 15:48	10/23/19 15:58	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1363957	1	10/17/19 00:15	10/17/19 18:56	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365975	1.01	10/16/19 08:13	10/20/19 12:24	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367888	1	10/16/19 08:13	10/23/19 14:12	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365477	1	10/18/19 15:53	10/19/19 02:21	KME	Mt. Juliet, TN

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

BH-3 (9'-10') L1150129-16 Solid

Collected by: JT | Collected date/time: 10/09/19 13:20 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367012	1	10/23/19 15:48	10/23/19 15:58	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1363957	1	10/17/19 00:15	10/17/19 19:12	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365975	1	10/16/19 08:13	10/20/19 12:48	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367888	1.01	10/16/19 08:13	10/23/19 14:32	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365512	1	10/18/19 19:26	10/19/19 10:25	KME	Mt. Juliet, TN

BH-4 (0'-1') L1150129-17 Solid

Collected by: JT | Collected date/time: 10/09/19 13:30 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367012	1	10/23/19 15:48	10/23/19 15:58	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1364316	1	10/18/19 01:10	10/18/19 03:44	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365975	1	10/16/19 08:13	10/20/19 13:12	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367888	1	10/16/19 08:13	10/23/19 14:53	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365512	1	10/18/19 19:26	10/19/19 12:11	KME	Mt. Juliet, TN

BH-4 (2'-3') L1150129-18 Solid

Collected by: JT | Collected date/time: 10/09/19 13:40 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367012	1	10/23/19 15:48	10/23/19 15:58	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1364316	1	10/18/19 01:10	10/18/19 03:53	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365975	1.01	10/16/19 08:13	10/20/19 13:36	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367888	1	10/16/19 08:13	10/23/19 15:14	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365512	1	10/18/19 19:26	10/19/19 10:38	KME	Mt. Juliet, TN

BH-4 (4'-5') L1150129-19 Solid

Collected by: JT | Collected date/time: 10/09/19 13:50 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367012	1	10/23/19 15:48	10/23/19 15:58	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1364316	1	10/18/19 01:10	10/18/19 04:12	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365975	1	10/16/19 08:13	10/20/19 14:00	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367888	1	10/16/19 08:13	10/23/19 15:34	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365512	1	10/18/19 19:26	10/19/19 11:17	KME	Mt. Juliet, TN

BH-4 (6'-7') L1150129-20 Solid

Collected by: JT | Collected date/time: 10/09/19 14:00 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367012	1	10/23/19 15:48	10/23/19 15:58	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1364316	1	10/18/19 01:10	10/18/19 04:21	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365975	1.01	10/16/19 08:13	10/20/19 14:25	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367888	1	10/16/19 08:13	10/23/19 15:55	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365512	1	10/18/19 19:26	10/19/19 11:30	KME	Mt. Juliet, TN

BH-4 (9'-10') L1150129-21 Solid

Collected by: JT | Collected date/time: 10/09/19 14:10 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367012	1	10/23/19 15:48	10/23/19 15:58	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1364316	1	10/18/19 01:10	10/18/19 04:31	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365975	1	10/16/19 08:13	10/20/19 14:49	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367888	1	10/16/19 08:13	10/23/19 09:21	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365512	1	10/18/19 19:26	10/19/19 11:43	KME	Mt. Juliet, TN

BH-4 (14'-15') L1150129-22 Solid

Collected by: JT | Collected date/time: 10/09/19 14:20 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367012	1	10/23/19 15:48	10/23/19 15:58	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1364316	1	10/18/19 01:10	10/18/19 04:40	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365975	1	10/16/19 08:13	10/20/19 15:13	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367888	1	10/16/19 08:13	10/23/19 09:42	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365512	1	10/18/19 19:26	10/19/19 11:56	KME	Mt. Juliet, TN

BH-5 (0'-1') L1150129-23 Solid

Collected by: JT | Collected date/time: 10/09/19 14:30 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367012	1	10/23/19 15:48	10/23/19 15:58	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1364316	1	10/18/19 01:10	10/18/19 04:50	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1364943	1	10/16/19 08:32	10/19/19 09:04	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367888	1	10/16/19 08:32	10/23/19 10:03	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365512	5	10/18/19 19:26	10/19/19 14:22	KME	Mt. Juliet, TN

BH-5 (2'-3') L1150129-24 Solid

Collected by: JT | Collected date/time: 10/09/19 14:40 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367012	1	10/23/19 15:48	10/23/19 15:58	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1364316	1	10/18/19 01:10	10/18/19 05:38	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1364943	1	10/16/19 08:32	10/19/19 09:28	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367888	1	10/16/19 08:32	10/23/19 10:24	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365512	1	10/18/19 19:26	10/19/19 12:24	KME	Mt. Juliet, TN

BH-5 (4'-5') L1150129-25 Solid

Collected by: JT | Collected date/time: 10/09/19 14:50 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367013	1	10/23/19 15:34	10/23/19 15:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1364316	5	10/18/19 01:10	10/18/19 05:47	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1364943	1.01	10/16/19 08:32	10/19/19 10:16	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367888	1	10/16/19 08:32	10/23/19 10:44	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365512	1	10/18/19 19:26	10/19/19 12:37	KME	Mt. Juliet, TN

BH-5 (6'-7') L1150129-26 Solid

Collected by: JT | Collected date/time: 10/09/19 15:00 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367013	1	10/23/19 15:34	10/23/19 15:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1364316	1	10/18/19 01:10	10/18/19 05:57	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365975	1	10/16/19 08:32	10/20/19 15:37	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367888	1	10/16/19 08:32	10/23/19 11:05	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365512	1	10/18/19 19:26	10/19/19 12:50	KME	Mt. Juliet, TN

BH-5 (9'-10') L1150129-27 Solid

Collected by: JT | Collected date/time: 10/09/19 15:10 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367013	1	10/23/19 15:34	10/23/19 15:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1364316	1	10/18/19 01:10	10/18/19 06:06	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365975	1	10/16/19 08:32	10/20/19 16:01	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367888	1	10/16/19 08:32	10/23/19 11:26	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365512	1	10/18/19 19:26	10/19/19 13:03	KME	Mt. Juliet, TN

BH-5 (14'-15') L1150129-28 Solid

Collected by: JT | Collected date/time: 10/09/19 15:20 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367013	1	10/23/19 15:34	10/23/19 15:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1364316	1	10/18/19 01:10	10/18/19 06:16	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365975	1.01	10/16/19 08:32	10/20/19 16:25	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367888	1	10/16/19 08:32	10/23/19 11:46	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365512	1	10/18/19 19:26	10/19/19 13:16	KME	Mt. Juliet, TN

BH-6 (0'-1') L1150129-29 Solid

Collected by: JT | Collected date/time: 10/09/19 15:30 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367013	1	10/23/19 15:34	10/23/19 15:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1364316	1	10/18/19 01:10	10/18/19 06:25	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365550	1	10/16/19 08:32	10/20/19 17:25	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367888	1	10/16/19 08:32	10/23/19 12:07	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365512	5	10/18/19 19:26	10/19/19 14:35	KME	Mt. Juliet, TN

BH-6 (2'-3') L1150129-30 Solid

Collected by: JT | Collected date/time: 10/09/19 15:40 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367013	1	10/23/19 15:34	10/23/19 15:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1364316	5	10/18/19 01:10	10/18/19 06:35	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365550	1	10/16/19 08:32	10/20/19 17:47	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367888	1	10/16/19 08:32	10/23/19 12:28	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365512	1	10/18/19 19:26	10/19/19 13:55	KME	Mt. Juliet, TN

BH-6 (4'-5') L1150129-31 Solid

Collected by: JT | Collected date/time: 10/09/19 15:50 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367013	1	10/23/19 15:34	10/23/19 15:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1364316	1	10/18/19 01:10	10/18/19 06:44	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365550	1.01	10/16/19 08:32	10/20/19 18:10	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1367938	1	10/16/19 08:32	10/23/19 13:30	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365512	1	10/18/19 19:26	10/19/19 13:29	KME	Mt. Juliet, TN

BH-7 (0'-1') L1150129-32 Solid

Collected by: JT | Collected date/time: 10/10/19 10:00 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367013	1	10/23/19 15:34	10/23/19 15:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1364316	10	10/18/19 01:10	10/18/19 07:22	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365589	1.01	10/16/19 08:32	10/20/19 00:02	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1368147	1	10/16/19 08:32	10/24/19 09:53	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365512	5	10/18/19 19:26	10/19/19 14:48	KME	Mt. Juliet, TN

BH-7 (2'-3') L1150129-33 Solid

Collected by: JT | Collected date/time: 10/10/19 10:10 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367013	1	10/23/19 15:34	10/23/19 15:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1364316	10	10/18/19 01:10	10/18/19 07:32	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365589	1	10/16/19 08:32	10/20/19 00:23	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1368147	1.01	10/16/19 08:32	10/24/19 10:11	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365512	1	10/18/19 19:26	10/19/19 13:42	KME	Mt. Juliet, TN

BH-7 (4'-5') L1150129-34 Solid

Collected by: JT | Collected date/time: 10/10/19 10:20 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367013	1	10/23/19 15:34	10/23/19 15:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1364316	1	10/18/19 01:10	10/18/19 07:41	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365589	1.01	10/16/19 08:32	10/20/19 00:44	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1368147	1	10/16/19 08:32	10/24/19 10:30	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365515	1	10/19/19 04:32	10/19/19 10:34	FM	Mt. Juliet, TN

BH-7 (6'-7') L1150129-35 Solid

Collected by: JT | Collected date/time: 10/10/19 10:30 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367014	1	10/23/19 15:20	10/23/19 15:31	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1364316	1	10/18/19 01:10	10/18/19 07:51	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365589	1	10/16/19 08:32	10/20/19 01:04	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1368147	1	10/16/19 08:32	10/24/19 10:49	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365515	1	10/19/19 04:32	10/19/19 09:56	FM	Mt. Juliet, TN

BH-7 (9'-10') L1150129-36 Solid

Collected by: JT | Collected date/time: 10/10/19 10:40 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367014	1	10/23/19 15:20	10/23/19 15:31	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1364316	1	10/18/19 01:10	10/18/19 08:00	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365589	1.01	10/16/19 08:32	10/20/19 01:25	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1368147	1	10/16/19 08:32	10/24/19 11:08	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365515	1	10/19/19 04:32	10/19/19 10:46	FM	Mt. Juliet, TN

BH-7 (14'-15') L1150129-37 Solid

Collected by: JT | Collected date/time: 10/10/19 10:50 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367014	1	10/23/19 15:20	10/23/19 15:31	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1364664	1	10/17/19 19:10	10/17/19 21:28	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365589	1	10/16/19 08:32	10/20/19 01:45	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1368147	1	10/16/19 08:32	10/24/19 11:27	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365515	1	10/19/19 04:32	10/19/19 10:59	FM	Mt. Juliet, TN

BH-8 (0'-1') L1150129-38 Solid

Collected by: JT | Collected date/time: 10/10/19 11:20 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367014	1	10/23/19 15:20	10/23/19 15:31	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1364664	1	10/17/19 19:10	10/17/19 21:37	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365589	1	10/16/19 08:32	10/20/19 02:06	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1368147	1.01	10/16/19 08:32	10/24/19 11:45	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365515	1	10/19/19 04:32	10/19/19 14:10	FM	Mt. Juliet, TN

BH-8 (2'-3') L1150129-39 Solid

Collected by: JT | Collected date/time: 10/10/19 11:30 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367014	1	10/23/19 15:20	10/23/19 15:31	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1364664	1	10/17/19 19:10	10/17/19 21:47	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365589	1	10/16/19 08:32	10/20/19 02:26	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1368147	1	10/16/19 08:32	10/24/19 12:04	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365515	1	10/19/19 04:32	10/19/19 14:23	FM	Mt. Juliet, TN

BH-8 (4'-5') L1150129-40 Solid

Collected by: JT | Collected date/time: 10/10/19 11:40 | Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367014	1	10/23/19 15:20	10/23/19 15:31	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1364664	1	10/17/19 19:10	10/17/19 21:56	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365589	1	10/16/19 08:32	10/20/19 02:47	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1368147	1	10/16/19 08:32	10/24/19 12:23	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365515	1	10/19/19 04:32	10/19/19 11:12	FM	Mt. Juliet, TN

BH-8 (6'-7') L1150129-41 Solid

Collected by: JT
Collected date/time: 10/10/19 11:50
Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367014	1	10/23/19 15:20	10/23/19 15:31	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1364664	1	10/17/19 19:10	10/17/19 22:15	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365589	1.01	10/16/19 08:32	10/20/19 03:07	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1368147	1.01	10/16/19 08:32	10/24/19 12:42	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365515	1	10/19/19 04:32	10/19/19 11:25	FM	Mt. Juliet, TN

BH-8 (9'-10') L1150129-42 Solid

Collected by: JT
Collected date/time: 10/10/19 12:00
Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367014	1	10/23/19 15:20	10/23/19 15:31	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1364664	1	10/17/19 19:10	10/17/19 22:25	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365589	1	10/16/19 08:32	10/20/19 03:28	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1368147	1	10/16/19 08:32	10/24/19 13:01	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365515	1	10/19/19 04:32	10/19/19 13:57	FM	Mt. Juliet, TN

BH-8 (14'-15') L1150129-43 Solid

Collected by: JT
Collected date/time: 10/10/19 12:10
Received date/time: 10/15/19 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1367014	1	10/23/19 15:20	10/23/19 15:31	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1364664	1	10/17/19 19:10	10/17/19 22:34	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1365589	1	10/16/19 08:32	10/20/19 03:48	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1368147	1	10/16/19 08:32	10/24/19 13:20	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1365515	1	10/19/19 04:32	10/19/19 11:37	FM	Mt. Juliet, TN

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

Chris McCord
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.5		1	10/23/2019 13:32	WG1367010

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	1350		4.25	10.0	53.4	5	10/17/2019 12:54	WG1363957

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0234	0.100	0.108	1.01	10/19/2019 15:15	WG1364933
(S) a,a,a-Trifluorotoluene(FID)	*98.9*				*62.0-128*		*10/19/2019 15:15*	WG1364933

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000432	0.00100	0.00108	1.01	10/23/2019 15:30	WG1367577
Toluene	0.0421		0.00135	0.00500	0.00540	1.01	10/23/2019 15:30	WG1367577
Ethylbenzene	U		0.000572	0.00250	0.00270	1.01	10/23/2019 15:30	WG1367577
Total Xylenes	U		0.00516	0.00650	0.00701	1.01	10/23/2019 15:30	WG1367577
(S) Toluene-d8	*99.5*				*75.0-131*		*10/23/2019 15:30*	WG1367577
(S) 4-Bromofluorobenzene	*95.7*				*67.0-138*		*10/23/2019 15:30*	WG1367577
(S) 1,2-Dichloroethane-d4	*120*				*70.0-130*		*10/23/2019 15:30*	WG1367577

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	8.53		1.72	4.00	4.28	1	10/19/2019 02:34	WG1365477
C28-C40 Oil Range	26.6		0.293	4.00	4.28	1	10/19/2019 02:34	WG1365477
(S) o-Terphenyl	*87.1*				*18.0-148*		*10/19/2019 02:34*	WG1365477

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.8		1	10/23/2019 13:32	WG1367010

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	653		0.830	10.0	10.4	1	10/17/2019 13:09	WG1363957

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0226	0.100	0.104	1	10/19/2019 15:35	WG1364933
(S) a,a,a-Trifluorotoluene(FID)	*98.9*				*62.0-128*		*10/19/2019 15:35*	WG1364933

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000417	0.00100	0.00104	1	10/23/2019 15:50	WG1367577
Toluene	0.0438		0.00130	0.00500	0.00522	1	10/23/2019 15:50	WG1367577
Ethylbenzene	U		0.000553	0.00250	0.00261	1	10/23/2019 15:50	WG1367577
Total Xylenes	U		0.00499	0.00650	0.00678	1	10/23/2019 15:50	WG1367577
(S) Toluene-d8	*97.8*				*75.0-131*		*10/23/2019 15:50*	WG1367577
(S) 4-Bromofluorobenzene	*96.8*				*67.0-138*		*10/23/2019 15:50*	WG1367577
(S) 1,2-Dichloroethane-d4	*120*				*70.0-130*		*10/23/2019 15:50*	WG1367577

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.92	J	1.68	4.00	4.17	1	10/19/2019 00:09	WG1365477
C28-C40 Oil Range	5.16		0.286	4.00	4.17	1	10/19/2019 00:09	WG1365477
(S) o-Terphenyl	*89.0*				*18.0-148*		*10/19/2019 00:09*	WG1365477

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.0		1	10/23/2019 13:32	WG1367010

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	491		0.837	10.0	10.5	1	10/17/2019 14:34	WG1363957

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0229	0.100	0.105	1	10/19/2019 15:55	WG1364933
(S) a,a,a-Trifluorotoluene(FID)	*98.9*				*62.0-128*		*10/19/2019 15:55*	WG1364933

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	0.000605	J	0.000421	0.00100	0.00105	1	10/23/2019 16:10	WG1367577
Toluene	0.0413		0.00132	0.00500	0.00527	1	10/23/2019 16:10	WG1367577
Ethylbenzene	U		0.000558	0.00250	0.00263	1	10/23/2019 16:10	WG1367577
Total Xylenes	U		0.00503	0.00650	0.00684	1	10/23/2019 16:10	WG1367577
(S) Toluene-d8	*96.6*				*75.0-131*		*10/23/2019 16:10*	WG1367577
(S) 4-Bromofluorobenzene	*97.2*				*67.0-138*		*10/23/2019 16:10*	WG1367577
(S) 1,2-Dichloroethane-d4	*124*				*70.0-130*		*10/23/2019 16:10*	WG1367577

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.70	4.00	4.21	1	10/19/2019 00:22	WG1365477
C28-C40 Oil Range	1.34	J	0.289	4.00	4.21	1	10/19/2019 00:22	WG1365477
(S) o-Terphenyl	*79.3*				*18.0-148*		*10/19/2019 00:22*	WG1365477

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.1		1	10/23/2019 13:32	WG1367010

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	349		0.854	10.0	10.7	1	10/17/2019 14:49	WG1363957

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0234	J	0.0233	0.100	0.107	1	10/19/2019 16:16	WG1364933
(S) a,a,a-Trifluorotoluene(FID)	*99.4*				*62.0-128*		*10/19/2019 16:16*	WG1364933

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000434	0.00100	0.00108	1.01	10/23/2019 16:29	WG1367577
Toluene	0.0443		0.00136	0.00500	0.00542	1.01	10/23/2019 16:29	WG1367577
Ethylbenzene	U		0.000575	0.00250	0.00272	1.01	10/23/2019 16:29	WG1367577
Total Xylenes	U		0.00518	0.00650	0.00704	1.01	10/23/2019 16:29	WG1367577
(S) Toluene-d8	*99.7*				*75.0-131*		*10/23/2019 16:29*	WG1367577
(S) 4-Bromofluorobenzene	*94.9*				*67.0-138*		*10/23/2019 16:29*	WG1367577
(S) 1,2-Dichloroethane-d4	*120*				*70.0-130*		*10/23/2019 16:29*	WG1367577

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.73	4.00	4.29	1	10/19/2019 00:35	WG1365477
C28-C40 Oil Range	0.499	J	0.294	4.00	4.29	1	10/19/2019 00:35	WG1365477
(S) o-Terphenyl	*76.3*				*18.0-148*		*10/19/2019 00:35*	WG1365477

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.0		1	10/23/2019 16:08	WG1367011

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	91.5		0.803	10.0	10.1	1	10/17/2019 15:05	WG1363957

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0658	B J	0.0223	0.100	0.103	1.02	10/18/2019 13:30	WG1364945
(S) a,a,a-Trifluorotoluene(FID)	*105*				*77.0-120*		*10/18/2019 13:30*	WG1364945

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000404	0.00100	0.00101	1	10/23/2019 16:49	WG1367577
Toluene	0.0419		0.00126	0.00500	0.00505	1	10/23/2019 16:49	WG1367577
Ethylbenzene	U		0.000535	0.00250	0.00252	1	10/23/2019 16:49	WG1367577
Total Xylenes	U		0.00483	0.00650	0.00656	1	10/23/2019 16:49	WG1367577
(S) Toluene-d8	*97.4*				*75.0-131*		*10/23/2019 16:49*	WG1367577
(S) 4-Bromofluorobenzene	*94.2*				*67.0-138*		*10/23/2019 16:49*	WG1367577
(S) 1,2-Dichloroethane-d4	*120*				*70.0-130*		*10/23/2019 16:49*	WG1367577

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.63	4.00	4.04	1	10/19/2019 00:49	WG1365477
C28-C40 Oil Range	0.847	J	0.277	4.00	4.04	1	10/19/2019 00:49	WG1365477
(S) o-Terphenyl	*79.7*				*18.0-148*		*10/19/2019 00:49*	WG1365477

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.7		1	10/23/2019 16:08	WG1367011

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	14100		83.1	10.0	1040	100	10/17/2019 16:07	WG1363957

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0648	B J	0.0227	0.100	0.104	1	10/18/2019 14:04	WG1364945
(S) a,a,a-Trifluorotoluene(FID)	*103*				*77.0-120*		*10/18/2019 14:04*	WG1364945

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000418	0.00100	0.00104	1	10/23/2019 17:08	WG1367577
Toluene	0.0438		0.00131	0.00500	0.00522	1	10/23/2019 17:08	WG1367577
Ethylbenzene	U		0.000554	0.00250	0.00261	1	10/23/2019 17:08	WG1367577
Total Xylenes	U		0.00499	0.00650	0.00679	1	10/23/2019 17:08	WG1367577
(S) Toluene-d8	*96.9*				*75.0-131*		*10/23/2019 17:08*	WG1367577
(S) 4-Bromofluorobenzene	*94.1*				*67.0-138*		*10/23/2019 17:08*	WG1367577
(S) 1,2-Dichloroethane-d4	*119*				*70.0-130*		*10/23/2019 17:08*	WG1367577

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1600		33.6	4.00	83.6	20	10/19/2019 03:26	WG1365477
C28-C40 Oil Range	912		5.72	4.00	83.6	20	10/19/2019 03:26	WG1365477
(S) o-Terphenyl	*383*	J7			*18.0-148*		*10/19/2019 03:26*	WG1365477

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.6		1	10/23/2019 16:08	WG1367011

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	1830		4.16	10.0	52.3	5	10/17/2019 16:22	WG1363957

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	46.3		2.27	0.100	10.5	100	10/19/2019 23:42	WG1365589
(S) a,a,a-Trifluorotoluene(FID)	*101*				*77.0-120*		*10/19/2019 23:42*	WG1365589

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.00335	0.00100	0.00837	8	10/23/2019 21:39	WG1367577
Toluene	0.0502		0.0105	0.00500	0.0418	8	10/23/2019 21:39	WG1367577
Ethylbenzene	0.00649	J	0.00444	0.00250	0.0209	8	10/23/2019 21:39	WG1367577
Total Xylenes	0.142		0.0400	0.00650	0.0544	8	10/23/2019 21:39	WG1367577
(S) Toluene-d8	*98.0*				*75.0-131*		*10/23/2019 21:39*	WG1367577
(S) 4-Bromofluorobenzene	*95.8*				*67.0-138*		*10/23/2019 21:39*	WG1367577
(S) 1,2-Dichloroethane-d4	*116*				*70.0-130*		*10/23/2019 21:39*	WG1367577

Sample Narrative:

L1150129-07 WG1367577: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2420		33.7	4.00	83.7	20	10/19/2019 03:39	WG1365477
C28-C40 Oil Range	1060		5.73	4.00	83.7	20	10/19/2019 03:39	WG1365477
(S) o-Terphenyl	*457*	J7			*18.0-148*		*10/19/2019 03:39*	WG1365477

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.1		1	10/23/2019 16:08	WG1367011

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	366		0.863	10.0	10.9	1	10/17/2019 16:37	WG1363957

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0734	B J	0.0240	0.100	0.111	1.02	10/18/2019 14:26	WG1364945
(S) a,a,a-Trifluorotoluene(FID)	*105*				*77.0-120*		*10/18/2019 14:26*	WG1364945

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000434	0.00100	0.00109	1	10/23/2019 17:28	WG1367577
Toluene	0.0473		0.00136	0.00500	0.00543	1	10/23/2019 17:28	WG1367577
Ethylbenzene	U		0.000575	0.00250	0.00271	1	10/23/2019 17:28	WG1367577
Total Xylenes	U		0.00519	0.00650	0.00706	1	10/23/2019 17:28	WG1367577
(S) Toluene-d8	*102*				*75.0-131*		*10/23/2019 17:28*	WG1367577
(S) 4-Bromofluorobenzene	*92.3*				*67.0-138*		*10/23/2019 17:28*	WG1367577
(S) 1,2-Dichloroethane-d4	*113*				*70.0-130*		*10/23/2019 17:28*	WG1367577

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.75	4.00	4.34	1	10/19/2019 01:02	WG1365477
C28-C40 Oil Range	0.940	J	0.297	4.00	4.34	1	10/19/2019 01:02	WG1365477
(S) o-Terphenyl	*82.3*				*18.0-148*		*10/19/2019 01:02*	WG1365477

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.6		1	10/23/2019 16:08	WG1367011

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	237		0.807	10.0	10.1	1	10/17/2019 16:53	WG1363957

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0680	B J	0.0220	0.100	0.101	1	10/18/2019 15:50	WG1364945
(S) a,a,a-Trifluorotoluene(FID)	*103*				*77.0-120*		*10/18/2019 15:50*	WG1364945

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000406	0.00100	0.00101	1	10/23/2019 17:47	WG1367577
Toluene	0.0447		0.00127	0.00500	0.00507	1	10/23/2019 17:47	WG1367577
Ethylbenzene	U		0.000538	0.00250	0.00254	1	10/23/2019 17:47	WG1367577
Total Xylenes	U		0.00485	0.00650	0.00659	1	10/23/2019 17:47	WG1367577
(S) Toluene-d8	*101*				*75.0-131*		*10/23/2019 17:47*	WG1367577
(S) 4-Bromofluorobenzene	*91.2*				*67.0-138*		*10/23/2019 17:47*	WG1367577
(S) 1,2-Dichloroethane-d4	*111*				*70.0-130*		*10/23/2019 17:47*	WG1367577

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	5.67		1.63	4.00	4.06	1	10/19/2019 01:15	WG1365477
C28-C40 Oil Range	3.67	J	0.278	4.00	4.06	1	10/19/2019 01:15	WG1365477
(S) o-Terphenyl	*88.8*				*18.0-148*		*10/19/2019 01:15*	WG1365477

BH-2 (9-10')
Collected date/time: 10/09/19 12:10

SAMPLE RESULTS - 10

L1150129

ONE LAB. NATIONWIDE.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.2		1	10/23/2019 16:08	WG1367011

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	1300		4.18	10.0	52.5	5	10/17/2019 17:39	WG1363957

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0645	B J	0.0228	0.100	0.105	1	10/18/2019 16:12	WG1364945
(S) a,a,a-Trifluorotoluene(FID)	*104*				*77.0-120*		*10/18/2019 16:12*	WG1364945

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000420	0.00100	0.00105	1	10/23/2019 18:06	WG1367577
Toluene	0.0438		0.00131	0.00500	0.00525	1	10/23/2019 18:06	WG1367577
Ethylbenzene	0.00112	J	0.000557	0.00250	0.00263	1	10/23/2019 18:06	WG1367577
Total Xylenes	U		0.00502	0.00650	0.00683	1	10/23/2019 18:06	WG1367577
(S) Toluene-d8	*101*				*75.0-131*		*10/23/2019 18:06*	WG1367577
(S) 4-Bromofluorobenzene	*93.5*				*67.0-138*		*10/23/2019 18:06*	WG1367577
(S) 1,2-Dichloroethane-d4	*115*				*70.0-130*		*10/23/2019 18:06*	WG1367577

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.69	4.00	4.20	1	10/19/2019 01:28	WG1365477
C28-C40 Oil Range	0.453	J	0.288	4.00	4.20	1	10/19/2019 01:28	WG1365477
(S) o-Terphenyl	*81.0*				*18.0-148*		*10/19/2019 01:28*	WG1365477

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.1		1	10/23/2019 16:08	WG1367011

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	37.2		0.811	10.0	10.2	1	10/17/2019 17:55	WG1363957

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0603	B J	0.0221	0.100	0.102	1	10/18/2019 16:58	WG1364945
(S) a,a,a-Trifluorotoluene(FID)	*104*				*77.0-120*		*10/18/2019 16:58*	WG1364945

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000408	0.00100	0.00102	1	10/23/2019 12:49	WG1367888
Toluene	0.0656		0.00127	0.00500	0.00510	1	10/23/2019 12:49	WG1367888
Ethylbenzene	U		0.000540	0.00250	0.00255	1	10/23/2019 12:49	WG1367888
Total Xylenes	U		0.00487	0.00650	0.00663	1	10/23/2019 12:49	WG1367888
(S) Toluene-d8	*101*				*75.0-131*		*10/23/2019 12:49*	WG1367888
(S) 4-Bromofluorobenzene	*95.9*				*67.0-138*		*10/23/2019 12:49*	WG1367888
(S) 1,2-Dichloroethane-d4	*102*				*70.0-130*		*10/23/2019 12:49*	WG1367888

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.64	4.00	4.08	1	10/19/2019 01:41	WG1365477
C28-C40 Oil Range	0.300	J	0.279	4.00	4.08	1	10/19/2019 01:41	WG1365477
(S) o-Terphenyl	*86.3*				*18.0-148*		*10/19/2019 01:41*	WG1365477

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.7		1	10/23/2019 16:08	WG1367011

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	890		4.29	10.0	54.0	5	10/17/2019 18:10	WG1363957

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0734	B J	0.0234	0.100	0.108	1	10/18/2019 17:21	WG1364945
(S) a,a,a-Trifluorotoluene(FID)	*104*				*77.0-120*		*10/18/2019 17:21*	WG1364945

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000432	0.00100	0.00108	1	10/23/2019 13:10	WG1367888
Toluene	0.0679		0.00135	0.00500	0.00540	1	10/23/2019 13:10	WG1367888
Ethylbenzene	U		0.000572	0.00250	0.00270	1	10/23/2019 13:10	WG1367888
Total Xylenes	U		0.00516	0.00650	0.00701	1	10/23/2019 13:10	WG1367888
(S) Toluene-d8	*103*				*75.0-131*		*10/23/2019 13:10*	WG1367888
(S) 4-Bromofluorobenzene	*92.8*				*67.0-138*		*10/23/2019 13:10*	WG1367888
(S) 1,2-Dichloroethane-d4	*96.8*				*70.0-130*		*10/23/2019 13:10*	WG1367888

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	135		1.74	4.00	4.32	1	10/19/2019 03:13	WG1365477
C28-C40 Oil Range	142		0.296	4.00	4.32	1	10/19/2019 03:13	WG1365477
(S) o-Terphenyl	*76.2*				*18.0-148*		*10/19/2019 03:13*	WG1365477

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.5		1	10/23/2019 16:08	WG1367011

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	795		4.21	10.0	52.9	5	10/17/2019 18:26	WG1363957

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0737	B J	0.0230	0.100	0.106	1	10/18/2019 18:07	WG1364945
(S) a,a,a-Trifluorotoluene(FID)	*103*				*77.0-120*		*10/18/2019 18:07*	WG1364945

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000423	0.00100	0.00106	1	10/23/2019 13:30	WG1367888
Toluene	0.0633		0.00132	0.00500	0.00529	1	10/23/2019 13:30	WG1367888
Ethylbenzene	U		0.000561	0.00250	0.00265	1	10/23/2019 13:30	WG1367888
Total Xylenes	U		0.00506	0.00650	0.00688	1	10/23/2019 13:30	WG1367888
(S) Toluene-d8	*106*				*75.0-131*		*10/23/2019 13:30*	WG1367888
(S) 4-Bromofluorobenzene	*97.9*				*67.0-138*		*10/23/2019 13:30*	WG1367888
(S) 1,2-Dichloroethane-d4	*100*				*70.0-130*		*10/23/2019 13:30*	WG1367888

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.70	4.00	4.23	1	10/19/2019 01:54	WG1365477
C28-C40 Oil Range	0.561	J	0.290	4.00	4.23	1	10/19/2019 01:54	WG1365477
(S) o-Terphenyl	*82.6*				*18.0-148*		*10/19/2019 01:54*	WG1365477

BH-3 (4-5)
Collected date/time: 10/09/19 13:00

SAMPLE RESULTS - 14

L1150129

ONE LAB. NATIONWIDE.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.4		1	10/23/2019 16:08	WG1367011

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	23.4	B	0.842	10.0	10.6	1	10/17/2019 18:41	WG1363957

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0232	0.100	0.107	1.01	10/20/2019 12:00	WG1365975
(S) a,a,a-Trifluorotoluene(FID)	*95.4*				*77.0-120*		*10/20/2019 12:00*	WG1365975

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000424	0.00100	0.00106	1	10/23/2019 13:51	WG1367888
Toluene	0.0698		0.00132	0.00500	0.00530	1	10/23/2019 13:51	WG1367888
Ethylbenzene	U		0.000561	0.00250	0.00265	1	10/23/2019 13:51	WG1367888
Total Xylenes	U		0.00506	0.00650	0.00689	1	10/23/2019 13:51	WG1367888
(S) Toluene-d8	*104*				*75.0-131*		*10/23/2019 13:51*	WG1367888
(S) 4-Bromofluorobenzene	*97.1*				*67.0-138*		*10/23/2019 13:51*	WG1367888
(S) 1,2-Dichloroethane-d4	*97.1*				*70.0-130*		*10/23/2019 13:51*	WG1367888

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.71	4.00	4.24	1	10/19/2019 02:08	WG1365477
C28-C40 Oil Range	U		0.290	4.00	4.24	1	10/19/2019 02:08	WG1365477
(S) o-Terphenyl	*71.1*				*18.0-148*		*10/19/2019 02:08*	WG1365477

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.4		1	10/23/2019 15:58	WG1367012

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	59.5		0.900	10.0	11.3	1	10/17/2019 18:56	WG1363957

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0248	0.100	0.114	1.01	10/20/2019 12:24	WG1365975
(S) a,a,a-Trifluorotoluene(FID)	*95.8*				*77.0-120*		*10/20/2019 12:24*	WG1365975

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000453	0.00100	0.00113	1	10/23/2019 14:12	WG1367888
Toluene	0.00759		0.00141	0.00500	0.00566	1	10/23/2019 14:12	WG1367888
Ethylbenzene	U		0.000600	0.00250	0.00283	1	10/23/2019 14:12	WG1367888
Total Xylenes	U		0.00541	0.00650	0.00735	1	10/23/2019 14:12	WG1367888
(S) Toluene-d8	*102*				*75.0-131*		*10/23/2019 14:12*	WG1367888
(S) 4-Bromofluorobenzene	*95.1*				*67.0-138*		*10/23/2019 14:12*	WG1367888
(S) 1,2-Dichloroethane-d4	*90.9*				*70.0-130*		*10/23/2019 14:12*	WG1367888

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.82	4.00	4.53	1	10/19/2019 02:21	WG1365477
C28-C40 Oil Range	U		0.310	4.00	4.53	1	10/19/2019 02:21	WG1365477
(S) o-Terphenyl	*67.2*				*18.0-148*		*10/19/2019 02:21*	WG1365477

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.2		1	10/23/2019 15:58	WG1367012

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	70.9		0.853	10.0	10.7	1	10/17/2019 19:12	WG1363957

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0233	0.100	0.107	1	10/20/2019 12:48	WG1365975
(S) a,a,a-Trifluorotoluene(FID)	*95.0*				*77.0-120*		*10/20/2019 12:48*	WG1365975

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000434	0.00100	0.00108	1.01	10/23/2019 14:32	WG1367888
Toluene	0.00561		0.00136	0.00500	0.00542	1.01	10/23/2019 14:32	WG1367888
Ethylbenzene	U		0.000575	0.00250	0.00272	1.01	10/23/2019 14:32	WG1367888
Total Xylenes	U		0.00518	0.00650	0.00704	1.01	10/23/2019 14:32	WG1367888
(S) Toluene-d8	*107*				*75.0-131*		*10/23/2019 14:32*	WG1367888
(S) 4-Bromofluorobenzene	*95.5*				*67.0-138*		*10/23/2019 14:32*	WG1367888
(S) 1,2-Dichloroethane-d4	*98.4*				*70.0-130*		*10/23/2019 14:32*	WG1367888

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.73	4.00	4.29	1	10/19/2019 10:25	WG1365512
C28-C40 Oil Range	1.14	J	0.294	4.00	4.29	1	10/19/2019 10:25	WG1365512
(S) o-Terphenyl	*76.3*				*18.0-148*		*10/19/2019 10:25*	WG1365512

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.3		1	10/23/2019 15:58	WG1367012

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	38.0	B	0.852	10.0	10.7	1	10/18/2019 03:44	WG1364316

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0233	0.100	0.107	1	10/20/2019 13:12	WG1365975
(S) a,a,a-Trifluorotoluene(FID)	*95.3*				*77.0-120*		*10/20/2019 13:12*	WG1365975

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000429	0.00100	0.00107	1	10/23/2019 14:53	WG1367888
Toluene	0.00491	J	0.00134	0.00500	0.00536	1	10/23/2019 14:53	WG1367888
Ethylbenzene	U		0.000568	0.00250	0.00268	1	10/23/2019 14:53	WG1367888
Total Xylenes	U		0.00512	0.00650	0.00697	1	10/23/2019 14:53	WG1367888
(S) Toluene-d8	*106*				*75.0-131*		*10/23/2019 14:53*	WG1367888
(S) 4-Bromofluorobenzene	*98.1*				*67.0-138*		*10/23/2019 14:53*	WG1367888
(S) 1,2-Dichloroethane-d4	*95.1*				*70.0-130*		*10/23/2019 14:53*	WG1367888

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	12.9		1.73	4.00	4.29	1	10/19/2019 12:11	WG1365512
C28-C40 Oil Range	35.9		0.294	4.00	4.29	1	10/19/2019 12:11	WG1365512
(S) o-Terphenyl	*67.6*				*18.0-148*		*10/19/2019 12:11*	WG1365512

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.0		1	10/23/2019 15:58	WG1367012

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	226		0.855	10.0	10.8	1	10/18/2019 03:53	WG1364316

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0236	0.100	0.109	1.01	10/20/2019 13:36	WG1365975
(S) a,a,a-Trifluorotoluene(FID)	*94.4*				*77.0-120*		*10/20/2019 13:36*	WG1365975

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000430	0.00100	0.00108	1	10/23/2019 15:14	WG1367888
Toluene	0.00498	J	0.00134	0.00500	0.00538	1	10/23/2019 15:14	WG1367888
Ethylbenzene	U		0.000570	0.00250	0.00269	1	10/23/2019 15:14	WG1367888
Total Xylenes	U		0.00514	0.00650	0.00699	1	10/23/2019 15:14	WG1367888
(S) Toluene-d8	*104*				*75.0-131*		*10/23/2019 15:14*	WG1367888
(S) 4-Bromofluorobenzene	*94.7*				*67.0-138*		*10/23/2019 15:14*	WG1367888
(S) 1,2-Dichloroethane-d4	*94.1*				*70.0-130*		*10/23/2019 15:14*	WG1367888

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.73	4.00	4.30	1	10/19/2019 10:38	WG1365512
C28-C40 Oil Range	5.42		0.295	4.00	4.30	1	10/19/2019 10:38	WG1365512
(S) o-Terphenyl	*75.2*				*18.0-148*		*10/19/2019 10:38*	WG1365512

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.9		1	10/23/2019 15:58	WG1367012

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	281		0.838	10.0	10.5	1	10/18/2019 04:12	WG1364316

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0229	0.100	0.105	1	10/20/2019 14:00	WG1365975
(S) a,a,a-Trifluorotoluene(FID)	*95.8*				*77.0-120*		*10/20/2019 14:00*	WG1365975

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000422	0.00100	0.00105	1	10/23/2019 15:34	WG1367888
Toluene	0.00458	J	0.00132	0.00500	0.00527	1	10/23/2019 15:34	WG1367888
Ethylbenzene	U		0.000559	0.00250	0.00263	1	10/23/2019 15:34	WG1367888
Total Xylenes	U		0.00504	0.00650	0.00685	1	10/23/2019 15:34	WG1367888
(S) Toluene-d8	*103*				*75.0-131*		*10/23/2019 15:34*	WG1367888
(S) 4-Bromofluorobenzene	*95.8*				*67.0-138*		*10/23/2019 15:34*	WG1367888
(S) 1,2-Dichloroethane-d4	*100*				*70.0-130*		*10/23/2019 15:34*	WG1367888

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.70	4.00	4.22	1	10/19/2019 11:17	WG1365512
C28-C40 Oil Range	0.291	J	0.289	4.00	4.22	1	10/19/2019 11:17	WG1365512
(S) o-Terphenyl	*80.2*				*18.0-148*		*10/19/2019 11:17*	WG1365512

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.4		1	10/23/2019 15:58	WG1367012

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	315		0.834	10.0	10.5	1	10/18/2019 04:21	WG1364316

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0230	0.100	0.106	1.01	10/20/2019 14:25	WG1365975
(S) a,a,a-Trifluorotoluene(FID)	*96.0*				*77.0-120*		*10/20/2019 14:25*	WG1365975

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000419	0.00100	0.00105	1	10/23/2019 15:55	WG1367888
Toluene	0.00464	J	0.00131	0.00500	0.00524	1	10/23/2019 15:55	WG1367888
Ethylbenzene	U		0.000556	0.00250	0.00262	1	10/23/2019 15:55	WG1367888
Total Xylenes	U		0.00501	0.00650	0.00682	1	10/23/2019 15:55	WG1367888
(S) Toluene-d8	*103*				*75.0-131*		*10/23/2019 15:55*	WG1367888
(S) 4-Bromofluorobenzene	*96.9*				*67.0-138*		*10/23/2019 15:55*	WG1367888
(S) 1,2-Dichloroethane-d4	*95.6*				*70.0-130*		*10/23/2019 15:55*	WG1367888

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.69	4.00	4.19	1	10/19/2019 11:30	WG1365512
C28-C40 Oil Range	0.609	J	0.287	4.00	4.19	1	10/19/2019 11:30	WG1365512
(S) o-Terphenyl	*65.0*				*18.0-148*		*10/19/2019 11:30*	WG1365512

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.6		1	10/23/2019 15:58	WG1367012

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	125		0.841	10.0	10.6	1	10/18/2019 04:31	WG1364316

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0229	0.100	0.106	1	10/20/2019 14:49	WG1365975
(S) a,a,a-Trifluorotoluene(FID)	*95.6*				*77.0-120*		*10/20/2019 14:49*	WG1365975

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000423	0.00100	0.00106	1	10/23/2019 09:21	WG1367888
Toluene	0.00534		0.00132	0.00500	0.00529	1	10/23/2019 09:21	WG1367888
Ethylbenzene	U		0.000560	0.00250	0.00264	1	10/23/2019 09:21	WG1367888
Total Xylenes	U		0.00505	0.00650	0.00687	1	10/23/2019 09:21	WG1367888
(S) Toluene-d8	*103*				*75.0-131*		*10/23/2019 09:21*	WG1367888
(S) 4-Bromofluorobenzene	*97.1*				*67.0-138*		*10/23/2019 09:21*	WG1367888
(S) 1,2-Dichloroethane-d4	*101*				*70.0-130*		*10/23/2019 09:21*	WG1367888

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.70	4.00	4.23	1	10/19/2019 11:43	WG1365512
C28-C40 Oil Range	0.302	J	0.290	4.00	4.23	1	10/19/2019 11:43	WG1365512
(S) o-Terphenyl	*76.0*				*18.0-148*		*10/19/2019 11:43*	WG1365512

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.7		1	10/23/2019 15:58	WG1367012

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	11.7	B	0.823	10.0	10.3	1	10/18/2019 04:40	WG1364316

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0225	0.100	0.103	1	10/20/2019 15:13	WG1365975
(S) a,a,a-Trifluorotoluene(FID)	*95.9*				*77.0-120*		*10/20/2019 15:13*	WG1365975

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000414	0.00100	0.00103	1	10/23/2019 09:42	WG1367888
Toluene	0.00443	J	0.00129	0.00500	0.00517	1	10/23/2019 09:42	WG1367888
Ethylbenzene	U		0.000548	0.00250	0.00259	1	10/23/2019 09:42	WG1367888
Total Xylenes	U		0.00495	0.00650	0.00672	1	10/23/2019 09:42	WG1367888
(S) Toluene-d8	*103*				*75.0-131*		*10/23/2019 09:42*	WG1367888
(S) 4-Bromofluorobenzene	*94.7*				*67.0-138*		*10/23/2019 09:42*	WG1367888
(S) 1,2-Dichloroethane-d4	*101*				*70.0-130*		*10/23/2019 09:42*	WG1367888

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.67	4.00	4.14	1	10/19/2019 11:56	WG1365512
C28-C40 Oil Range	0.430	J	0.283	4.00	4.14	1	10/19/2019 11:56	WG1365512
(S) o-Terphenyl	*77.7*				*18.0-148*		*10/19/2019 11:56*	WG1365512

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.9		1	10/23/2019 15:58	WG1367012

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	786	V	0.829	10.0	10.4	1	10/18/2019 04:50	WG1364316

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0226	0.100	0.104	1	10/19/2019 09:04	WG1364943
(S) a,a,a-Trifluorotoluene(FID)	*92.8*				*77.0-120*		*10/19/2019 09:04*	WG1364943

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000417	0.00100	0.00104	1	10/23/2019 10:03	WG1367888
Toluene	0.00544		0.00130	0.00500	0.00521	1	10/23/2019 10:03	WG1367888
Ethylbenzene	U		0.000552	0.00250	0.00261	1	10/23/2019 10:03	WG1367888
Total Xylenes	U		0.00498	0.00650	0.00678	1	10/23/2019 10:03	WG1367888
(S) Toluene-d8	*104*				*75.0-131*		*10/23/2019 10:03*	WG1367888
(S) 4-Bromofluorobenzene	*98.2*				*67.0-138*		*10/23/2019 10:03*	WG1367888
(S) 1,2-Dichloroethane-d4	*98.9*				*70.0-130*		*10/23/2019 10:03*	WG1367888

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	152		8.39	4.00	20.8	5	10/19/2019 14:22	WG1365512
C28-C40 Oil Range	304		1.43	4.00	20.8	5	10/19/2019 14:22	WG1365512
(S) o-Terphenyl	*55.2*				*18.0-148*		*10/19/2019 14:22*	WG1365512

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.2		1	10/23/2019 15:58	WG1367012

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	568		0.844	10.0	10.6	1	10/18/2019 05:38	WG1364316

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0230	0.100	0.106	1	10/19/2019 09:28	WG1364943
(S) a,a,a-Trifluorotoluene(FID)	*94.3*				*77.0-120*		*10/19/2019 09:28*	WG1364943

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000425	0.00100	0.00106	1	10/23/2019 10:24	WG1367888
Toluene	0.00507	J	0.00133	0.00500	0.00531	1	10/23/2019 10:24	WG1367888
Ethylbenzene	U		0.000563	0.00250	0.00265	1	10/23/2019 10:24	WG1367888
Total Xylenes	U		0.00507	0.00650	0.00690	1	10/23/2019 10:24	WG1367888
(S) Toluene-d8	*105*				*75.0-131*		*10/23/2019 10:24*	WG1367888
(S) 4-Bromofluorobenzene	*94.8*				*67.0-138*		*10/23/2019 10:24*	WG1367888
(S) 1,2-Dichloroethane-d4	*101*				*70.0-130*		*10/23/2019 10:24*	WG1367888

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.98	J	1.71	4.00	4.25	1	10/19/2019 12:24	WG1365512
C28-C40 Oil Range	7.65		0.291	4.00	4.25	1	10/19/2019 12:24	WG1365512
(S) o-Terphenyl	*69.6*				*18.0-148*		*10/19/2019 12:24*	WG1365512

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.5		1	10/23/2019 15:44	WG1367013

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	1580		4.76	10.0	59.9	5	10/18/2019 05:47	WG1364316

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0262	0.100	0.121	1.01	10/19/2019 10:16	WG1364943
(S) a,a,a-Trifluorotoluene(FID)	*94.9*				*77.0-120*		*10/19/2019 10:16*	WG1364943

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000479	0.00100	0.00120	1	10/23/2019 10:44	WG1367888
Toluene	0.00528	J	0.00150	0.00500	0.00599	1	10/23/2019 10:44	WG1367888
Ethylbenzene	U		0.000635	0.00250	0.00299	1	10/23/2019 10:44	WG1367888
Total Xylenes	U		0.00572	0.00650	0.00778	1	10/23/2019 10:44	WG1367888
(S) Toluene-d8	*103*				*75.0-131*		*10/23/2019 10:44*	WG1367888
(S) 4-Bromofluorobenzene	*95.5*				*67.0-138*		*10/23/2019 10:44*	WG1367888
(S) 1,2-Dichloroethane-d4	*97.0*				*70.0-130*		*10/23/2019 10:44*	WG1367888

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.93	4.00	4.79	1	10/19/2019 12:37	WG1365512
C28-C40 Oil Range	1.78	J	0.328	4.00	4.79	1	10/19/2019 12:37	WG1365512
(S) o-Terphenyl	*73.4*				*18.0-148*		*10/19/2019 12:37*	WG1365512

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.0		1	10/23/2019 15:44	WG1367013

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	453		0.811	10.0	10.2	1	10/18/2019 05:57	WG1364316

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0221	0.100	0.102	1	10/20/2019 15:37	WG1365975
(S) a,a,a-Trifluorotoluene(FID)	*95.9*				*77.0-120*		*10/20/2019 15:37*	WG1365975

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000408	0.00100	0.00102	1	10/23/2019 11:05	WG1367888
Toluene	0.00477	J	0.00128	0.00500	0.00510	1	10/23/2019 11:05	WG1367888
Ethylbenzene	U		0.000541	0.00250	0.00255	1	10/23/2019 11:05	WG1367888
Total Xylenes	U		0.00488	0.00650	0.00663	1	10/23/2019 11:05	WG1367888
(S) Toluene-d8	*104*				*75.0-131*		*10/23/2019 11:05*	WG1367888
(S) 4-Bromofluorobenzene	*98.5*				*67.0-138*		*10/23/2019 11:05*	WG1367888
(S) 1,2-Dichloroethane-d4	*99.7*				*70.0-130*		*10/23/2019 11:05*	WG1367888

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.64	4.00	4.08	1	10/19/2019 12:50	WG1365512
C28-C40 Oil Range	1.33	J	0.280	4.00	4.08	1	10/19/2019 12:50	WG1365512
(S) o-Terphenyl	*85.2*				*18.0-148*		*10/19/2019 12:50*	WG1365512

BH-3 (9-10')
Collected date/time: 10/09/19 15:10

SAMPLE RESULTS - 27

L1150129

ONE LAB. NA

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.3		1	10/23/2019 15:44	WG1367013

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	318		0.817	10.0	10.3	1	10/18/2019 06:06	WG1364316

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0223	0.100	0.103	1	10/20/2019 16:01	WG1365975
(S) a,a,a-Trifluorotoluene(FID)	*97.0*				*77.0-120*		*10/20/2019 16:01*	WG1365975

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000411	0.00100	0.00103	1	10/23/2019 11:26	WG1367888
Toluene	0.00450	J	0.00128	0.00500	0.00514	1	10/23/2019 11:26	WG1367888
Ethylbenzene	U		0.000545	0.00250	0.00257	1	10/23/2019 11:26	WG1367888
Total Xylenes	U		0.00491	0.00650	0.00668	1	10/23/2019 11:26	WG1367888
(S) Toluene-d8	*102*				*75.0-131*		*10/23/2019 11:26*	WG1367888
(S) 4-Bromofluorobenzene	*96.9*				*67.0-138*		*10/23/2019 11:26*	WG1367888
(S) 1,2-Dichloroethane-d4	*101*				*70.0-130*		*10/23/2019 11:26*	WG1367888

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.65	4.00	4.11	1	10/19/2019 13:03	WG1365512
C28-C40 Oil Range	0.839	J	0.281	4.00	4.11	1	10/19/2019 13:03	WG1365512
(S) o-Terphenyl	*77.0*				*18.0-148*		*10/19/2019 13:03*	WG1365512

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.0		1	10/23/2019 15:44	WG1367013

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	396		0.828	10.0	10.4	1	10/18/2019 06:16	WG1364316

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0228	0.100	0.105	1.01	10/20/2019 16:25	WG1365975
(S) a,a,a-Trifluorotoluene(FID)	*96.2*				*77.0-120*		*10/20/2019 16:25*	WG1365975

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000417	0.00100	0.00104	1	10/23/2019 11:46	WG1367888
Toluene	0.00438	J	0.00130	0.00500	0.00521	1	10/23/2019 11:46	WG1367888
Ethylbenzene	U		0.000552	0.00250	0.00260	1	10/23/2019 11:46	WG1367888
Total Xylenes	U		0.00498	0.00650	0.00677	1	10/23/2019 11:46	WG1367888
(S) Toluene-d8	*107*				*75.0-131*		*10/23/2019 11:46*	WG1367888
(S) 4-Bromofluorobenzene	*98.2*				*67.0-138*		*10/23/2019 11:46*	WG1367888
(S) 1,2-Dichloroethane-d4	*92.4*				*70.0-130*		*10/23/2019 11:46*	WG1367888

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.68	4.00	4.17	1	10/19/2019 13:16	WG1365512
C28-C40 Oil Range	0.772	J	0.285	4.00	4.17	1	10/19/2019 13:16	WG1365512
(S) o-Terphenyl	*79.6*				*18.0-148*		*10/19/2019 13:16*	WG1365512

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.7		1	10/23/2019 15:44	WG1367013

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	19.7	B	0.822	10.0	10.3	1	10/18/2019 06:25	WG1364316

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0784	B J J3	0.0224	0.100	0.103	1	10/20/2019 17:25	WG1365550
(S) a,a,a-Trifluorotoluene(FID)	*105*				*77.0-120*		*10/20/2019 17:25*	WG1365550

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000414	0.00100	0.00103	1	10/23/2019 12:07	WG1367888
Toluene	0.00476	J	0.00129	0.00500	0.00517	1	10/23/2019 12:07	WG1367888
Ethylbenzene	U		0.000548	0.00250	0.00259	1	10/23/2019 12:07	WG1367888
Total Xylenes	U		0.00494	0.00650	0.00672	1	10/23/2019 12:07	WG1367888
(S) Toluene-d8	*103*				*75.0-131*		*10/23/2019 12:07*	WG1367888
(S) 4-Bromofluorobenzene	*96.9*				*67.0-138*		*10/23/2019 12:07*	WG1367888
(S) 1,2-Dichloroethane-d4	*100*				*70.0-130*		*10/23/2019 12:07*	WG1367888

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	57.3		8.32	4.00	20.7	5	10/19/2019 14:35	WG1365512
C28-C40 Oil Range	191		1.42	4.00	20.7	5	10/19/2019 14:35	WG1365512
(S) o-Terphenyl	*91.4*				*18.0-148*		*10/19/2019 14:35*	WG1365512

BH-6 (2 - 3')
Collected date/time: 10/09/19 15:40

SAMPLE RESULTS - 30

L1150129

ONE LAB. NATIONWIDE.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.4		1	10/23/2019 15:44	WG1367013

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	1050		4.40	10.0	55.3	5	10/18/2019 06:35	WG1364316

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0701	B J	0.0240	0.100	0.111	1	10/20/2019 17:47	WG1365550
(S) a,a,a-Trifluorotoluene(FID)	*104*				*77.0-120*		*10/20/2019 17:47*	WG1365550

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000442	0.00100	0.00111	1	10/23/2019 12:28	WG1367888
Toluene	0.00656		0.00138	0.00500	0.00553	1	10/23/2019 12:28	WG1367888
Ethylbenzene	U		0.000586	0.00250	0.00276	1	10/23/2019 12:28	WG1367888
Total Xylenes	U		0.00529	0.00650	0.00719	1	10/23/2019 12:28	WG1367888
(S) Toluene-d8	*110*				*75.0-131*		*10/23/2019 12:28*	WG1367888
(S) 4-Bromofluorobenzene	*101*				*67.0-138*		*10/23/2019 12:28*	WG1367888
(S) 1,2-Dichloroethane-d4	*103*				*70.0-130*		*10/23/2019 12:28*	WG1367888

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	27.9		1.78	4.00	4.42	1	10/19/2019 13:55	WG1365512
C28-C40 Oil Range	67.9		0.303	4.00	4.42	1	10/19/2019 13:55	WG1365512
(S) o-Terphenyl	*80.2*				*18.0-148*		*10/19/2019 13:55*	WG1365512

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.8		1	10/23/2019 15:44	WG1367013

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	835		0.839	10.0	10.6	1	10/18/2019 06:44	WG1364316

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0745	B J	0.0231	0.100	0.107	1.01	10/20/2019 18:10	WG1365550
(S) a,a,a-Trifluorotoluene(FID)	*104*				*77.0-120*		*10/20/2019 18:10*	WG1365550

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000422	0.00100	0.00106	1	10/23/2019 13:30	WG1367938
Toluene	0.00433	J	0.00132	0.00500	0.00528	1	10/23/2019 13:30	WG1367938
Ethylbenzene	U		0.000559	0.00250	0.00264	1	10/23/2019 13:30	WG1367938
Total Xylenes	U		0.00504	0.00650	0.00686	1	10/23/2019 13:30	WG1367938
(S) Toluene-d8	*100*				*75.0-131*		*10/23/2019 13:30*	WG1367938
(S) 4-Bromofluorobenzene	*95.6*				*67.0-138*		*10/23/2019 13:30*	WG1367938
(S) 1,2-Dichloroethane-d4	*113*				*70.0-130*		*10/23/2019 13:30*	WG1367938

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	9.61		1.70	4.00	4.22	1	10/19/2019 13:29	WG1365512
C28-C40 Oil Range	22.9		0.289	4.00	4.22	1	10/19/2019 13:29	WG1365512
(S) o-Terphenyl	*82.0*				*18.0-148*		*10/19/2019 13:29*	WG1365512

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.0		1	10/23/2019 15:44	WG1367013

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	4040		8.84	10.0	111	10	10/18/2019 07:22	WG1364316

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0248	J	0.0244	0.100	0.112	1.01	10/20/2019 00:02	WG1365589
(S) a,a,a-Trifluorotoluene(FID)	*98.6*				*77.0-120*		*10/20/2019 00:02*	WG1365589

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000445	0.00100	0.00111	1	10/24/2019 09:53	WG1368147
Toluene	0.00495	B J	0.00139	0.00500	0.00556	1	10/24/2019 09:53	WG1368147
Ethylbenzene	U		0.000589	0.00250	0.00278	1	10/24/2019 09:53	WG1368147
Total Xylenes	U		0.00531	0.00650	0.00722	1	10/24/2019 09:53	WG1368147
(S) Toluene-d8	*96.2*				*75.0-131*		*10/24/2019 09:53*	WG1368147
(S) 4-Bromofluorobenzene	*96.9*				*67.0-138*		*10/24/2019 09:53*	WG1368147
(S) 1,2-Dichloroethane-d4	*124*				*70.0-130*		*10/24/2019 09:53*	WG1368147

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	143		8.95	4.00	22.2	5	10/19/2019 14:48	WG1365512
C28-C40 Oil Range	242		1.52	4.00	22.2	5	10/19/2019 14:48	WG1365512
(S) o-Terphenyl	*58.4*				*18.0-148*		*10/19/2019 14:48*	WG1365512

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.3		1	10/23/2019 15:44	WG1367013

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	1850		8.61	10.0	108	10	10/18/2019 07:32	WG1364316

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0235	0.100	0.108	1	10/20/2019 00:23	WG1365589
(S) a,a,a-Trifluorotoluene(FID)	*98.9*				*77.0-120*		*10/20/2019 00:23*	WG1365589

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000437	0.00100	0.00109	1.01	10/24/2019 10:11	WG1368147
Toluene	0.00498	B J	0.00137	0.00500	0.00547	1.01	10/24/2019 10:11	WG1368147
Ethylbenzene	U		0.000580	0.00250	0.00274	1.01	10/24/2019 10:11	WG1368147
Total Xylenes	U		0.00523	0.00650	0.00710	1.01	10/24/2019 10:11	WG1368147
(S) Toluene-d8	*97.6*				*75.0-131*		*10/24/2019 10:11*	WG1368147
(S) 4-Bromofluorobenzene	*95.8*				*67.0-138*		*10/24/2019 10:11*	WG1368147
(S) 1,2-Dichloroethane-d4	*124*				*70.0-130*		*10/24/2019 10:11*	WG1368147

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	7.62		1.74	4.00	4.33	1	10/19/2019 13:42	WG1365512
C28-C40 Oil Range	15.3		0.297	4.00	4.33	1	10/19/2019 13:42	WG1365512
(S) o-Terphenyl	*78.3*				*18.0-148*		*10/19/2019 13:42*	WG1365512

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.8		1	10/23/2019 15:44	WG1367013

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	454		0.876	10.0	11.0	1	10/18/2019 07:41	WG1364316

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0241	0.100	0.111	1.01	10/20/2019 00:44	WG1365589
(S) a,a,a-Trifluorotoluene(FID)	*99.1*				*77.0-120*		*10/20/2019 00:44*	WG1365589

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000441	0.00100	0.00110	1	10/24/2019 10:30	WG1368147
Toluene	0.00510	B J	0.00138	0.00500	0.00551	1	10/24/2019 10:30	WG1368147
Ethylbenzene	U		0.000584	0.00250	0.00275	1	10/24/2019 10:30	WG1368147
Total Xylenes	U		0.00527	0.00650	0.00716	1	10/24/2019 10:30	WG1368147
(S) Toluene-d8	*98.8*				*75.0-131*		*10/24/2019 10:30*	WG1368147
(S) 4-Bromofluorobenzene	*93.6*				*67.0-138*		*10/24/2019 10:30*	WG1368147
(S) 1,2-Dichloroethane-d4	*118*				*70.0-130*		*10/24/2019 10:30*	WG1368147

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.77	4.00	4.41	1	10/19/2019 10:34	WG1365515
C28-C40 Oil Range	U		0.302	4.00	4.41	1	10/19/2019 10:34	WG1365515
(S) o-Terphenyl	*83.9*				*18.0-148*		*10/19/2019 10:34*	WG1365515

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.8		1	10/23/2019 15:31	WG1367014

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	264		0.885	10.0	11.1	1	10/18/2019 07:51	WG1364316

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0242	0.100	0.111	1	10/20/2019 01:04	WG1365589
(S) a,a,a-Trifluorotoluene(FID)	*99.5*				*77.0-120*		*10/20/2019 01:04*	WG1365589

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000445	0.00100	0.00111	1	10/24/2019 10:49	WG1368147
Toluene	0.00440	B J	0.00139	0.00500	0.00557	1	10/24/2019 10:49	WG1368147
Ethylbenzene	U		0.000590	0.00250	0.00278	1	10/24/2019 10:49	WG1368147
Total Xylenes	U		0.00532	0.00650	0.00724	1	10/24/2019 10:49	WG1368147
(S) Toluene-d8	*97.2*				*75.0-131*		*10/24/2019 10:49*	WG1368147
(S) 4-Bromofluorobenzene	*97.4*				*67.0-138*		*10/24/2019 10:49*	WG1368147
(S) 1,2-Dichloroethane-d4	*127*				*70.0-130*		*10/24/2019 10:49*	WG1368147

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.79	4.00	4.45	1	10/19/2019 09:56	WG1365515
C28-C40 Oil Range	U		0.305	4.00	4.45	1	10/19/2019 09:56	WG1365515
(S) o-Terphenyl	*83.8*				*18.0-148*		*10/19/2019 09:56*	WG1365515

BH-7 (9-10)
Collected date/time: 10/10/19 10:40

SAMPLE RESULTS - 36

L1150129

ONE LAB. NATIONWIDE.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.0		1	10/23/2019 15:31	WG1367014

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	72.9		0.846	10.0	10.6	1	10/18/2019 08:00	WG1364316

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0233	0.100	0.107	1.01	10/20/2019 01:25	WG1365589
(S) a,a,a-Trifluorotoluene(FID)	*99.3*				*77.0-120*		*10/20/2019 01:25*	WG1365589

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000426	0.00100	0.00106	1	10/24/2019 11:08	WG1368147
Toluene	0.00445	B J	0.00133	0.00500	0.00532	1	10/24/2019 11:08	WG1368147
Ethylbenzene	U		0.000564	0.00250	0.00266	1	10/24/2019 11:08	WG1368147
Total Xylenes	U		0.00509	0.00650	0.00692	1	10/24/2019 11:08	WG1368147
(S) Toluene-d8	*97.8*				*75.0-131*		*10/24/2019 11:08*	WG1368147
(S) 4-Bromofluorobenzene	*97.2*				*67.0-138*		*10/24/2019 11:08*	WG1368147
(S) 1,2-Dichloroethane-d4	*122*				*70.0-130*		*10/24/2019 11:08*	WG1368147

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.71	4.00	4.26	1	10/19/2019 10:46	WG1365515
C28-C40 Oil Range	U		0.292	4.00	4.26	1	10/19/2019 10:46	WG1365515
(S) o-Terphenyl	*80.1*				*18.0-148*		*10/19/2019 10:46*	WG1365515

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.5		1	10/23/2019 15:31	WG1367014

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	155		0.860	10.0	10.8	1	10/17/2019 21:28	WG1364664

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0235	0.100	0.108	1	10/20/2019 01:45	WG1365589
(S) a,a,a-Trifluorotoluene(FID)	*99.7*				*77.0-120*		*10/20/2019 01:45*	WG1365589

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000432	0.00100	0.00108	1	10/24/2019 11:27	WG1368147
Toluene	0.00454	B J	0.00135	0.00500	0.00540	1	10/24/2019 11:27	WG1368147
Ethylbenzene	U		0.000573	0.00250	0.00270	1	10/24/2019 11:27	WG1368147
Total Xylenes	U		0.00517	0.00650	0.00703	1	10/24/2019 11:27	WG1368147
(S) Toluene-d8	*97.2*				*75.0-131*		*10/24/2019 11:27*	WG1368147
(S) 4-Bromofluorobenzene	*94.6*				*67.0-138*		*10/24/2019 11:27*	WG1368147
(S) 1,2-Dichloroethane-d4	*119*				*70.0-130*		*10/24/2019 11:27*	WG1368147

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.74	4.00	4.32	1	10/19/2019 10:59	WG1365515
C28-C40 Oil Range	U		0.296	4.00	4.32	1	10/19/2019 10:59	WG1365515
(S) o-Terphenyl	*86.7*				*18.0-148*		*10/19/2019 10:59*	WG1365515

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.2		1	10/23/2019 15:31	WG1367014

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	53.7		0.872	10.0	11.0	1	10/17/2019 21:37	WG1364664

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0238	0.100	0.110	1	10/20/2019 02:06	WG1365589
(S) a,a,a-Trifluorotoluene(FID)	*99.4*				*77.0-120*		*10/20/2019 02:06*	WG1365589

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000443	0.00100	0.00111	1.01	10/24/2019 11:45	WG1368147
Toluene	0.00529	B J	0.00138	0.00500	0.00554	1.01	10/24/2019 11:45	WG1368147
Ethylbenzene	U		0.000587	0.00250	0.00278	1.01	10/24/2019 11:45	WG1368147
Total Xylenes	U		0.00530	0.00650	0.00720	1.01	10/24/2019 11:45	WG1368147
(S) Toluene-d8	*94.8*				*75.0-131*		*10/24/2019 11:45*	WG1368147
(S) 4-Bromofluorobenzene	*95.1*				*67.0-138*		*10/24/2019 11:45*	WG1368147
(S) 1,2-Dichloroethane-d4	*127*				*70.0-130*		*10/24/2019 11:45*	WG1368147

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.84		1.77	4.00	4.39	1	10/19/2019 14:10	WG1365515
C28-C40 Oil Range	19.6		0.301	4.00	4.39	1	10/19/2019 14:10	WG1365515
(S) o-Terphenyl	*73.5*				*18.0-148*		*10/19/2019 14:10*	WG1365515

BH-8 (2 - 3')
Collected date/time: 10/10/19 11:30

SAMPLE RESULTS - 39

L1150129

ONE LAB. NATIONWIDE.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.0		1	10/23/2019 15:31	WG1367014

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	50.1		0.837	10.0	10.5	1	10/17/2019 21:47	WG1364664

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0228	0.100	0.105	1	10/20/2019 02:26	WG1365589
(S) a,a,a-Trifluorotoluene(FID)	*99.4*				*77.0-120*		*10/20/2019 02:26*	WG1365589

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000421	0.00100	0.00105	1	10/24/2019 12:04	WG1368147
Toluene	0.00417	B J	0.00132	0.00500	0.00526	1	10/24/2019 12:04	WG1368147
Ethylbenzene	U		0.000558	0.00250	0.00263	1	10/24/2019 12:04	WG1368147
Total Xylenes	U		0.00503	0.00650	0.00684	1	10/24/2019 12:04	WG1368147
(S) Toluene-d8	*96.7*				*75.0-131*		*10/24/2019 12:04*	WG1368147
(S) 4-Bromofluorobenzene	*96.7*				*67.0-138*		*10/24/2019 12:04*	WG1368147
(S) 1,2-Dichloroethane-d4	*128*				*70.0-130*		*10/24/2019 12:04*	WG1368147

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.03	J	1.69	4.00	4.21	1	10/19/2019 14:23	WG1365515
C28-C40 Oil Range	9.03		0.288	4.00	4.21	1	10/19/2019 14:23	WG1365515
(S) o-Terphenyl	*85.3*				*18.0-148*		*10/19/2019 14:23*	WG1365515

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.7		1	10/23/2019 15:31	WG1367014

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	59.9	J3	0.831	10.0	10.5	1	10/17/2019 21:56	WG1364664

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0227	0.100	0.105	1	10/20/2019 02:47	WG1365589
(S) a,a,a-Trifluorotoluene(FID)	*99.6*				*77.0-120*		*10/20/2019 02:47*	WG1365589

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000418	0.00100	0.00105	1	10/24/2019 12:23	WG1368147
Toluene	0.00402	B J	0.00131	0.00500	0.00523	1	10/24/2019 12:23	WG1368147
Ethylbenzene	U		0.000554	0.00250	0.00261	1	10/24/2019 12:23	WG1368147
Total Xylenes	U		0.00500	0.00650	0.00680	1	10/24/2019 12:23	WG1368147
(S) Toluene-d8	*99.3*				*75.0-131*		*10/24/2019 12:23*	WG1368147
(S) 4-Bromofluorobenzene	*94.3*				*67.0-138*		*10/24/2019 12:23*	WG1368147
(S) 1,2-Dichloroethane-d4	*125*				*70.0-130*		*10/24/2019 12:23*	WG1368147

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.68	4.00	4.18	1	10/19/2019 11:12	WG1365515
C28-C40 Oil Range	U		0.286	4.00	4.18	1	10/19/2019 11:12	WG1365515
(S) o-Terphenyl	*78.2*				*18.0-148*		*10/19/2019 11:12*	WG1365515

BH-8 (0-7')
Collected date/time: 10/10/19 11:50

SAMPLE RESULTS - 41

L1150129

ONE LAB. NATIONWIDE.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.1		1	10/23/2019 15:31	WG1367014

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	505		0.828	10.0	10.4	1	10/17/2019 22:15	WG1364664

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0228	0.100	0.105	1.01	10/20/2019 03:07	WG1365589
(S) a,a,a-Trifluorotoluene(FID)	*99.4*				*77.0-120*		*10/20/2019 03:07*	WG1365589

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000421	0.00100	0.00105	1.01	10/24/2019 12:42	WG1368147
Toluene	0.00474	B J	0.00131	0.00500	0.00526	1.01	10/24/2019 12:42	WG1368147
Ethylbenzene	U		0.000557	0.00250	0.00263	1.01	10/24/2019 12:42	WG1368147
Total Xylenes	U		0.00503	0.00650	0.00683	1.01	10/24/2019 12:42	WG1368147
(S) Toluene-d8	*98.3*				*75.0-131*		*10/24/2019 12:42*	WG1368147
(S) 4-Bromofluorobenzene	*93.9*				*67.0-138*		*10/24/2019 12:42*	WG1368147
(S) 1,2-Dichloroethane-d4	*129*				*70.0-130*		*10/24/2019 12:42*	WG1368147

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.68	4.00	4.16	1	10/19/2019 11:25	WG1365515
C28-C40 Oil Range	U		0.285	4.00	4.16	1	10/19/2019 11:25	WG1365515
(S) o-Terphenyl	*73.3*				*18.0-148*		*10/19/2019 11:25*	WG1365515

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.0		1	10/23/2019 15:31	WG1367014

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	641		0.855	10.0	10.7	1	10/17/2019 22:25	WG1364664

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0233	0.100	0.107	1	10/20/2019 03:28	WG1365589
(S) a,a,a-Trifluorotoluene(FID)	*99.8*				*77.0-120*		*10/20/2019 03:28*	WG1365589

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000430	0.00100	0.00107	1	10/24/2019 13:01	WG1368147
Toluene	0.00444	B J	0.00134	0.00500	0.00537	1	10/24/2019 13:01	WG1368147
Ethylbenzene	U		0.000570	0.00250	0.00269	1	10/24/2019 13:01	WG1368147
Total Xylenes	U		0.00514	0.00650	0.00699	1	10/24/2019 13:01	WG1368147
(S) Toluene-d8	*97.0*				*75.0-131*		*10/24/2019 13:01*	WG1368147
(S) 4-Bromofluorobenzene	*97.8*				*67.0-138*		*10/24/2019 13:01*	WG1368147
(S) 1,2-Dichloroethane-d4	*131*	J1			*70.0-130*		*10/24/2019 13:01*	WG1368147

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.73	4.00	4.30	1	10/19/2019 13:57	WG1365515
C28-C40 Oil Range	U		0.295	4.00	4.30	1	10/19/2019 13:57	WG1365515
(S) o-Terphenyl	*77.5*				*18.0-148*		*10/19/2019 13:57*	WG1365515

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.9		1	10/23/2019 15:31	WG1367014

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	72.0		0.813	10.0	10.2	1	10/17/2019 22:34	WG1364664

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0222	0.100	0.102	1	10/20/2019 03:48	WG1365589
(S) a,a,a-Trifluorotoluene(FID)	*99.6*				*77.0-120*		*10/20/2019 03:48*	WG1365589

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

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000409	0.00100	0.00102	1	10/24/2019 13:20	WG1368147
Toluene	0.00446	B J	0.00128	0.00500	0.00511	1	10/24/2019 13:20	WG1368147
Ethylbenzene	U		0.000542	0.00250	0.00255	1	10/24/2019 13:20	WG1368147
Total Xylenes	U		0.00488	0.00650	0.00664	1	10/24/2019 13:20	WG1368147
(S) Toluene-d8	*95.1*				*75.0-131*		*10/24/2019 13:20*	WG1368147
(S) 4-Bromofluorobenzene	*94.3*				*67.0-138*		*10/24/2019 13:20*	WG1368147
(S) 1,2-Dichloroethane-d4	*128*				*70.0-130*		*10/24/2019 13:20*	WG1368147

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.65	4.00	4.09	1	10/19/2019 11:37	WG1365515
C28-C40 Oil Range	U		0.280	4.00	4.09	1	10/19/2019 11:37	WG1365515
(S) o-Terphenyl	*81.2*				*18.0-148*		*10/19/2019 11:37*	WG1365515

Method Blank (MB)

(MB) R3464447-1 10/23/19 13:32

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00400			

L1150123-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1150123-08 10/23/19 13:32 • (DUP) R3464447-3 10/23/19 13:32

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	76.7	76.6	1	0.0949		10

Laboratory Control Sample (LCS)

(LCS) R3464447-2 10/23/19 13:32

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) R3464531-1 10/23/19 16:08

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00800			

L1150129-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1150129-13 10/23/19 16:08 • (DUP) R3464531-3 10/23/19 16:08

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	94.5	95.5	1	1.06		10

Laboratory Control Sample (LCS)

(LCS) R3464531-2 10/23/19 16:08

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) R3464524-1 10/23/19 15:58

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00600			

L1150129-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1150129-24 10/23/19 15:58 • (DUP) R3464524-3 10/23/19 15:58

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	94.2	93.9	1	0.256		10

Laboratory Control Sample (LCS)

(LCS) R3464524-2 10/23/19 15:58

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.2	100	85.0-115	

Method Blank (MB)

(MB) R3464518-1 10/23/19 15:44

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00600			

L1150129-26 Original Sample (OS) • Duplicate (DUP)

(OS) L1150129-26 10/23/19 15:44 • (DUP) R3464518-3 10/23/19 15:44

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	98.0	98.0	1	0.00398		10

Laboratory Control Sample (LCS)

(LCS) R3464518-2 10/23/19 15:44

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	49.5	99.0	85.0-115	

Method Blank (MB)

(MB) R3464512-1 10/23/19 15:31

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00500			

L1150129-35 Original Sample (OS) • Duplicate (DUP)

(OS) L1150129-35 10/23/19 15:31 • (DUP) R3464512-3 10/23/19 15:31

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	89.8	90.3	1	0.471		10

Laboratory Control Sample (LCS)

(LCS) R3464512-2 10/23/19 15:31

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) R3462091-1 10/17/19 09:32

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	3.14	J	0.795	10.0

L1148806-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1148806-01 10/17/19 10:34 • (DUP) R3462091-3 10/17/19 10:50

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	25.8	15.4	1	50.5	P1	20

L1150129-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1150129-16 10/17/19 19:12 • (DUP) R3462091-8 10/17/19 19:27

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	70.9	62.5	1	12.6		20

Laboratory Control Sample (LCS)

(LCS) R3462091-2 10/17/19 09:47

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

L1150129-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1150129-06 10/17/19 15:20 • (MS) R3462091-6 10/17/19 15:36 • (MSD) R3462091-7 10/17/19 15:51

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	522	15400	15100	15200	0.000	0.000	1	80.0-120	E V	E V	0.630	20

Method Blank (MB)

(MB) R3462345-1 10/18/19 02:47

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	4.55	J	0.795	10.0

L1150129-18 Original Sample (OS) • Duplicate (DUP)

(OS) L1150129-18 10/18/19 03:53 • (DUP) R3462345-3 10/18/19 04:02

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	226	212	1	6.40		20

L1150129-31 Original Sample (OS) • Duplicate (DUP)

(OS) L1150129-31 10/18/19 06:44 • (DUP) R3462345-6 10/18/19 07:13

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	835	872	1	4.34		20

Laboratory Control Sample (LCS)

(LCS) R3462345-2 10/18/19 02:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	211	105	90.0-110	

L1150129-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1150129-23 10/18/19 04:50 • (MS) R3462345-4 10/18/19 05:19 • (MSD) R3462345-5 10/18/19 05:28

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	521	786	132	134	0.000	0.000	.1	80.0-120	E V	E V	1.63	20

Method Blank (MB)

(MB) R3462290-1 10/17/19 20:49

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	4.71	J	0.795	10.0

L1150129-40 Original Sample (OS) • Duplicate (DUP)

(OS) L1150129-40 10/17/19 21:56 • (DUP) R3462290-3 10/17/19 22:06

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	59.9	43.5	1	31.6	J3	20

L1150137-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1150137-13 10/18/19 01:35 • (DUP) R3462290-6 10/18/19 01:45

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	42.9	41.9	1	2.37		20

Laboratory Control Sample (LCS)

(LCS) R3462290-2 10/17/19 20:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	212	106	90.0-110	

L1150137-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1150137-07 10/18/19 00:00 • (MS) R3462290-4 10/18/19 00:10 • (MSD) R3462290-5 10/18/19 00:19

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	534	80.7	629	606	103	98.3	1	80.0-120			3.76	20

Method Blank (MB)

(MB) R3463179-3 10/19/19 08:43

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)	*99.7*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3463179-2 10/19/19 08:02

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.93	108	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*106*	*77.0-120*	

Method Blank (MB)

(MB) R3463326-2 10/19/19 01:22

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)	*95.9*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3463326-1 10/19/19 00:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.69	122	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*105*	*77.0-120*	

L1149584-68 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1149584-68 10/19/19 04:35 • (MS) R3463326-3 10/19/19 10:40 • (MSD) R3463326-4 10/19/19 11:04

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	1380	ND	1070	1470	70.5	99.5	250	10.0-151		J3	31.5	28
(S) a,a,a-Trifluorotoluene(FID)					*103*	*104*		*77.0-120*				

Method Blank (MB)

(MB) R3463293-2 10/18/19 11:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0656	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*105*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3463293-1 10/18/19 11:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.65	103	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*107*	*77.0-120*	

Method Blank (MB)

(MB) R3463029-2 10/20/19 14:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0731	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*106*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3463029-1 10/20/19 13:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.45	99.1	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*103*	*77.0-120*	

L1150129-29 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1150129-29 10/20/19 17:25 • (MS) R3463029-3 10/20/19 23:24 • (MSD) R3463029-4 10/20/19 23:46

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 %
TPH (GC/FID) Low Fraction	5.69	0.0784	1.22	2.19	20.1	37.2	1	10.0-151		J3	57.0	28
(S) a,a,a-Trifluorotoluene(FID)					*101*	*90.9*		*77.0-120*				

Method Blank (MB)

(MB) R3463765-2 10/19/19 20:48

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)	*100*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3463765-1 10/19/19 19:38

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)			*102*	*77.0-120*	

L1150129-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1150129-07 10/19/19 23:42 • (MS) R3463765-3 10/20/19 05:33 • (MSD) R3463765-4 10/20/19 05:54

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	575	46.3	589	602	94.3	96.5	100	10.0-151			2.11	28
(S) a,a,a-Trifluorotoluene(FID)					*108*	*109*		*77.0-120*				

Method Blank (MB)

(MB) R3463627-3 10/20/19 10:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*95.9*			*77.0-120*

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

(LCS) R3463627-1 10/20/19 08:37 • (LCSD) R3463627-2 10/20/19 09:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	4.47	5.10	81.3	92.7	72.0-127			13.2	20
(S) a,a,a-Trifluorotoluene(FID)				*101*	*101*	*77.0-120*				

Method Blank (MB)

(MB) R3464295-2 10/23/19 15:11

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	*102*			*75.0-131*
(S) 4-Bromofluorobenzene	*96.4*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3464295-1 10/23/19 14:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.122	97.6	70.0-123	
Ethylbenzene	0.125	0.117	93.6	74.0-126	
Toluene	0.125	0.0955	76.4	75.0-121	
Xylenes, Total	0.375	0.342	91.2	72.0-127	
(S) Toluene-d8			*95.6*	*75.0-131*	
(S) 4-Bromofluorobenzene			*97.4*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*127*	*70.0-130*	

Method Blank (MB)

(MB) R3464224-3 10/23/19 06:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	*102*			*75.0-131*
(S) 4-Bromofluorobenzene	*96.2*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*

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

(LCS) R3464224-1 10/23/19 05:31 • (LCSD) R3464224-2 10/23/19 05:52

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	0.136	0.128	109	102	70.0-123			6.06	20
Ethylbenzene	0.125	0.131	0.122	105	97.6	74.0-126			7.11	20
Toluene	0.125	0.123	0.112	98.4	89.6	75.0-121			9.36	20
Xylenes, Total	0.375	0.337	0.308	89.9	82.1	72.0-127			8.99	20
(S) Toluene-d8				*104*	*103*	*75.0-131*				
(S) 4-Bromofluorobenzene				*100*	*96.8*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*106*	*107*	*70.0-130*				

L1150129-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1150129-11 10/23/19 12:49 • (MS) R3464224-4 10/23/19 16:15 • (MSD) R3464224-5 10/23/19 16:36

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.127	U	0.117	0.122	92.0	96.0	1	10.0-149			4.26	37
Ethylbenzene	0.127	U	0.111	0.122	87.2	96.0	1	10.0-160			9.61	38
Toluene	0.127	0.0656	0.159	0.175	73.4	86.2	1	10.0-156			9.76	38
Xylenes, Total	0.382	U	0.273	0.310	71.5	81.1	1	10.0-160			12.6	38
(S) Toluene-d8					*102*	*100*		*75.0-131*				
(S) 4-Bromofluorobenzene					*98.1*	*95.2*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*106*	*105*		*70.0-130*				

Method Blank (MB)

(MB) R3464169-3 10/23/19 09:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	*97.8*			*75.0-131*
(S) 4-Bromofluorobenzene	*97.2*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*121*			*70.0-130*

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

(LCS) R3464169-1 10/23/19 08:28 • (LCSD) R3464169-2 10/23/19 08:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.112	0.116	89.6	92.8	70.0-123			3.51	20
Ethylbenzene	0.125	0.113	0.113	90.4	90.4	74.0-126			0.000	20
Toluene	0.125	0.114	0.113	91.2	90.4	75.0-121			0.881	20
Xylenes, Total	0.375	0.372	0.378	99.2	101	72.0-127			1.60	20
(S) Toluene-d8				*97.5*	*95.4*	*75.0-131*				
(S) 4-Bromofluorobenzene				*96.9*	*94.9*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*118*	*124*	*70.0-130*				

Method Blank (MB)

(MB) R3464753-3 10/24/19 08:00

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	0.00165	J	0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	*95.3*			*75.0-131*
(S) 4-Bromofluorobenzene	*95.6*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*121*			*70.0-130*

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

(LCS) R3464753-1 10/24/19 06:45 • (LCSD) R3464753-2 10/24/19 07:03

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	0.108	85.6	86.4	70.0-123			0.930	20
Ethylbenzene	0.125	0.113	0.105	90.4	84.0	74.0-126			7.34	20
Toluene	0.125	0.108	0.106	86.4	84.8	75.0-121			1.87	20
Xylenes, Total	0.375	0.352	0.350	93.9	93.3	72.0-127			0.570	20
(S) Toluene-d8				*95.6*	*94.0*	*75.0-131*				
(S) 4-Bromofluorobenzene				*96.9*	*97.5*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*119*	*124*	*70.0-130*				

L1149492-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1149492-03 10/24/19 08:18 • (MS) R3464753-4 10/24/19 16:09 • (MSD) R3464753-5 10/24/19 16:28

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	ND	0.103	0.109	82.4	87.2	1	10.0-149			5.66	37
Ethylbenzene	0.125	ND	0.0963	0.108	77.0	86.4	1	10.0-160			11.5	38
Toluene	0.125	ND	0.104	0.109	83.2	87.2	1	10.0-156			4.69	38
Xylenes, Total	0.375	ND	0.327	0.354	87.2	94.4	1	10.0-160			7.93	38
(S) Toluene-d8					*94.4*	*95.3*		*75.0-131*				
(S) 4-Bromofluorobenzene					*93.9*	*96.6*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*126*	*128*		*70.0-130*				

Method Blank (MB)

(MB) R3462667-1 10/18/19 23:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*58.6*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3462667-2 10/18/19 23:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	42.6	85.2	50.0-150	
(S) o-Terphenyl			*80.2*	*18.0-148*	

L1150129-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1150129-01 10/19/19 02:34 • (MS) R3462667-3 10/19/19 02:47 • (MSD) R3462667-4 10/19/19 03:00

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	53.4	8.53	50.6	49.8	78.6	77.2	1	50.0-150			1.49	20
(S) o-Terphenyl					*56.8*	*56.6*		*18.0-148*				

Method Blank (MB)

(MB) R3462885-1 10/19/19 09:45

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	*83.3*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3462885-2 10/19/19 09:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	37.9	75.8	50.0-150	
(S) o-Terphenyl			*68.6*	*18.0-148*	

L1150129-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1150129-18 10/19/19 10:38 • (MS) R3462885-3 10/19/19 10:51 • (MSD) R3462885-4 10/19/19 11:04

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	53.8	U	43.2	51.0	80.4	94.8	1	50.0-150			16.4	20
(S) o-Terphenyl					*66.8*	*80.6*		*18.0-148*				

Method Blank (MB)

(MB) R3462800-1 10/19/19 09:30

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*88.3*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3462800-2 10/19/19 09:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	43.1	86.2	50.0-150	
(S) o-Terphenyl			*107*	*18.0-148*	

L1150129-35 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1150129-35 10/19/19 09:56 • (MS) R3462800-3 10/19/19 10:08 • (MSD) R3462800-4 10/19/19 10:21

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	53.2	U	46.9	44.2	88.1	83.2	1	50.0-150			5.87	20
(S) o-Terphenyl					*96.7*	*91.7*		*18.0-148*				

Guide to Reading and Understanding Your Laboratory Report

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

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

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J3	The associated batch QC was outside the established quality control range for precision.

Qualifier	Description
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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

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

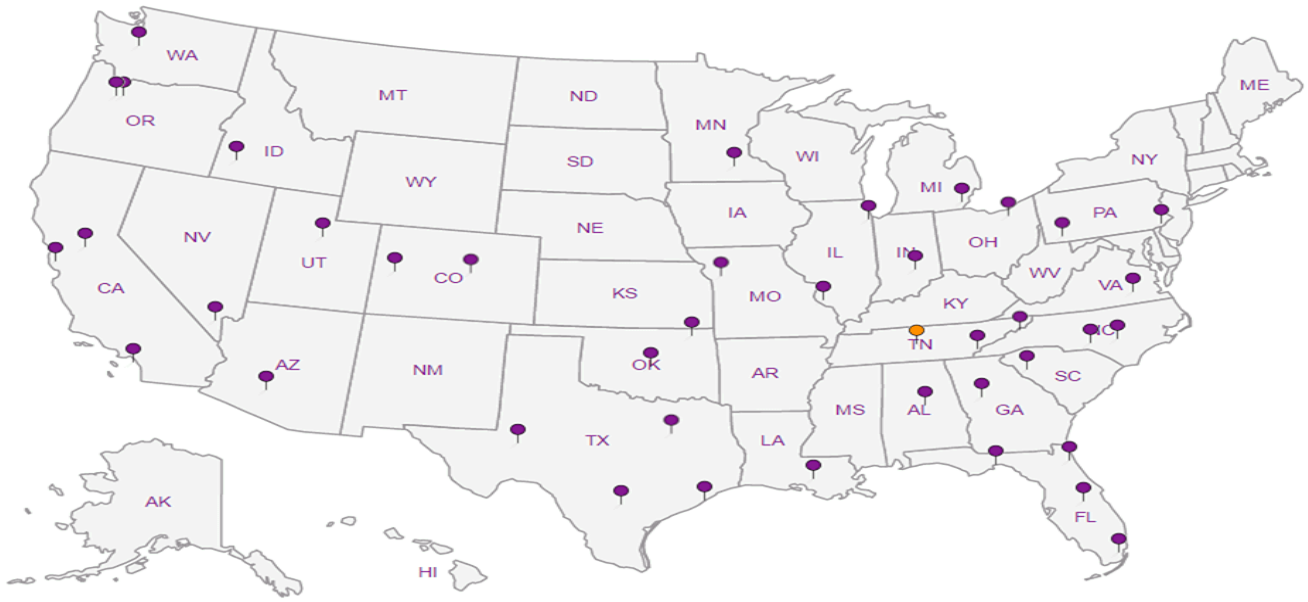
Third Party Federal Accreditations

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.



F198

1150

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:	COP EVGSAU 3308-007		
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-01929
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	

Comments: Run deeper samples if GRO+DRO exceeds 100 mg/kg or if benzene exceeds 10 mg/kg or if total BTEX exceeds 50 mg/kg or if chlorides exceed 600 mg/kg.

COPTETRA Acctnum

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2019 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD NONE		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
-01	BH-1 (0'- 1')	10/9/2019	1030		X				X			1	N	X		X												X						
02	BH-1 (2'- 3')	10/9/2019	1040		X				X			1	N	X		X												X						
03	BH-1 (4'- 5')	10/9/2019	1050		X				X			1	N	X		X												X						
04	BH-1 (6'- 7')	10/9/2019	1100		X				X			1	N	X		X												X						
05	BH-1 (9'- 10')	10/9/2019	1110		X				X			1	N	X		X												X						
06	BH-2 (0'- 1')	10/9/2019	1130		X				X			1	N	X		X												X						
07	BH-2 (2'- 3')	10/9/2019	1140		X				X			1	N	X		X												X						
08	BH-2 (4'- 5')	10/9/2019	1150		X				X			1	N	X		X												X						
09	BH-2 (6'- 7')	10/9/2019	1200		X				X			1	N	X		X												X						
10	BH-2 (9'- 10')	10/9/2019	1210		X				X			1	N	X		X												X						

Relinquished by: L.L	Date: 10-14-19	Time: 14:00	Received by:	Date: 10-14-19	Time: 14:00
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date: 10/15/19	Time: 9:15

ORIGINAL COPY

0.2 - 0 = 0.2 AS

PAD SCREEN: <0.5 mR/hr

LAB USE ONLY

Sample Temperature

REMARKS:

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

Analysis Request of Chain of Custody Record

Page : 2 of 5

Tetra Tech, Inc.

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

Client Name:	Conoco Phillips	Site Manager:	Christian Llull
Project Name:	COP EVGSAU 3308-007		
Project Location: (county, state)	Lea County, New Mexico	Project #:	212C-MD-01929
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	Sampler Signature:	

Comments: Run deeper samples if GRO+DRO exceeds 100 mg/kg or if benzene exceeds 10 mg/kg or if total BTEX exceeds 50 mg/kg or if chlorides exceed 600 mg/kg.

COPTETRA Acctnum

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2019)	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
11	BH-2 (14'- 15')	10/9/2019	1220		X			X		1	N	X		X												X					
12	BH-3 (0'- 1')	10/9/2019	1240		X			X		1	N	X		X												X					
13	BH-3 (2'- 3')	10/9/2019	1250		X			X		1	N	X		X												X					
14	BH-3 (4'- 5')	10/9/2019	1300		X			X		1	N	X		X												X					
15	BH-3 (6'- 7')	10/9/2019	1310		X			X		1	N	X		X												X					
16	BH-3 (9'- 10')	10/9/2019	1320		X			X		1	N	X		X												X					
17	BH-4 (0'- 1')	10/9/2019	1330		X			X		1	N	X		X												X					
18	BH-4 (2'- 3')	10/9/2019	1340		X			X		1	N	X		X												X					
19	BH-4 (4'- 5')	10/9/2019	1350		X			X		1	N	X		X												X					
20	BH-4 (6'- 7')	10/9/2019	1400		X			X		1	N	X		X												X					

Relinquished by:	Date: 10-14-19	Time: 14:00	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by: 10/15/19 9:15

LAB USE ONLY

Sample Temperature

REMARKS:

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

RAD SCREEN: <0.5 mR/hr

0.2-0=0.2 ASM

Analysis Request of Chain of Custody Record

Page : 3 of 5

Tetra Tech, Inc.

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

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	COP EVGSAU 3308-007		
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-01929
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	

Comments: Run deeper samples if GRO+DRO exceeds 100 mg/kg or if benzene exceeds 10 mg/kg or if total BTEX exceeds 50 mg/kg or if chlorides exceed 600 mg/kg.

COPTETRA Acctnum

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2019 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B _ BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
21	BH-4 (9'- 10')	10/9/2019	1410		X				X		1	N	X		X												X						
22	BH-4 (14'- 15')	10/9/2019	1420		X				X		1	N	X		X												X						
23	BH-5 (0'- 1')	10/9/2019	1430		X				X		1	N	X		X												X						
24	BH-5 (2'- 3')	10/9/2019	1440		X				X		1	N	X		X												X						
25	BH-5 (4'- 5')	10/9/2019	1450		X				X		1	N	X		X												X						
26	BH-5 (6'- 7')	10/9/2019	1500		X				X		1	N	X		X												X						
27	BH-5 (9'- 10')	10/9/2019	1510		X				X		1	N	X		X												X						
28	BH-5 (14'- 15')	10/9/2019	1520		X				X		1	N	X		X												X						
29	BH-6 (0'- 1')	10/9/2019	1530		X				X		1	N	X		X												X						
30	BH-6 (2'- 3')	10/9/2019	1540		X				X		1	N	X		X												X						

Relinquished by:	Date: 10-14-19	Time: 14:00	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by: 10/15/19 9:15

LAB USE ONLY

Sample Temperature

REMARKS:

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

RAD SCREEN: <0.5 mR/hr

0.2-0=0.2 ASA

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:	COP EVGSAU 3308-007		
Project Location: (county, state)	Lea County, New Mexico	Project #:	212C-MD-01929
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	Sampler Signature:	

Comments: Run deeper samples if GRO+DRO exceeds 100 mg/kg or if benzene exceeds 10 mg/kg or if total BTEX exceeds 50 mg/kg or if chlorides exceed 600 mg/kg.

COPTETRA Acctnum

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2019 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
31	BH-6 (4'- 5')	10/9/2019	1550		X			X		1	N	X		X												X					
32	BH-7 (0'- 1')	10/10/2019	1000		X			X		1	N	X		X												X					
33	BH-7 (2'- 3')	10/10/2019	1010		X			X		1	N	X		X												X					
34	BH-7 (4'- 5')	10/10/2019	1020		X			X		1	N	X		X												X					
35	BH-7 (6'- 7')	10/10/2019	1030		X			X		1	N	X		X												X					
36	BH-7 (9'- 10')	10/10/2019	1040		X			X		1	N	X		X												X					
37	BH-7 (14'- 15')	10/10/2019	1050		X			X		1	N	X		X												X					
38	BH-8 (0'- 1')	10/10/2019	1120		X			X		1	N	X		X												X					
39	BH-8 (2'- 3')	10/10/2019	1130		X			X		1	N	X		X												X					
40	BH-8 (4'- 5')	10/10/2019	1140		X			X		1	N	X		X												X					

Relinquished by:	Date: 10-14-19	Time: 14:00	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by: Date: 10/15/19 Time: 9:15

LAB USE ONLY

Sample Temperature

REMARKS:

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

RAD SCREEN: <0.5 mR/hr

0.2-0=0.2 ASP

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:	COP EVGSAU 3308-007
Project Location: (county, state)	Lea County, New Mexico
Project #:	212C-MD-01929
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701
Receiving Laboratory:	Pace Analytical
Sampler Signature:	

Comments: Run deeper samples if GRO+DRO exceeds 100 mg/kg or if benzene exceeds 10 mg/kg or if total BTEX exceeds 50 mg/kg or if chlorides exceed 600 mg/kg.

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
41	BH-8 (6'- 7')	10/10/2019	1150		X			X		1	N	X		X												X						
42	BH-8 (9'- 10')	10/10/2019	1200		X			X		1	N	X		X												X						
43	BH-8 (14'- 15')	10/10/2019	1210		X			X		1	N	X		X												X						

Relinquished by:	Date: 10-14-19	Time: 14:00	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Received by: Date: 10/14-19 Time: 14:00

Received by: Date: Time:

Received by: Date: 10/15/19 Time: 9:15

ORIGINAL COPY

0,2-0 = 0,2 4sr

LAB USE ONLY

Sample Temperature

REMARKS:

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

mR/hr

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client: COPETRA	1150129	
Cooler Received/Opened On: 10/15/19 Temperature:	0.2	
Received By: Hailey Melson		
Signature: Hailey Melson		

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

June 08, 2020

ConocoPhillips - Tetra Tech

Sample Delivery Group:	L1223379
Samples Received:	05/29/2020
Project Number:	212C-MD-01929
Description:	COP EVGSAU 3308-007

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

Entire Report Reviewed By:

Chris McCord
Project Manager

TABLE OF CONTENTS

BH-20-1W (0-1) L1223379-01 Solid

Collected by: Joe Tyler | Collected date/time: 05/21/20 08:00 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486307	1	06/03/20 22:07	06/03/20 22:18	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1485960	1	06/04/20 21:20	06/05/20 00:43	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485299	1	05/30/20 10:41	06/01/20 17:17	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1485238	1	05/30/20 10:41	06/01/20 15:46	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1484968	1	06/02/20 07:56	06/05/20 14:45	KME	Mt. Juliet, TN

BH-20-1W (2-3) L1223379-02 Solid

Collected by: Joe Tyler | Collected date/time: 05/21/20 08:05 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486307	1	06/03/20 22:07	06/03/20 22:18	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1485960	1	06/04/20 21:20	06/05/20 00:58	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485299	1	05/30/20 10:41	06/01/20 16:21	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1485238	1	05/30/20 10:41	06/01/20 16:05	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1484968	1	06/02/20 07:56	06/03/20 07:04	KME	Mt. Juliet, TN

BH-20-1W (4-5) L1223379-03 Solid

Collected by: Joe Tyler | Collected date/time: 05/21/20 08:10 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486307	1	06/03/20 22:07	06/03/20 22:18	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1485960	1	06/04/20 21:20	06/05/20 01:13	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485299	1	05/30/20 10:41	06/01/20 17:40	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1485238	1	05/30/20 10:41	06/01/20 16:24	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1484968	1	06/02/20 07:56	06/03/20 06:01	KME	Mt. Juliet, TN

BH-20-1W (6-7) L1223379-04 Solid

Collected by: Joe Tyler | Collected date/time: 05/21/20 08:20 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486307	1	06/03/20 22:07	06/03/20 22:18	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1485960	1	06/04/20 21:20	06/05/20 01:28	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485299	1	05/30/20 10:41	06/01/20 18:02	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1485238	1	05/30/20 10:41	06/01/20 16:43	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1484968	1	06/02/20 07:56	06/03/20 06:17	KME	Mt. Juliet, TN

BH-20-1W (9-10) L1223379-05 Solid

Collected by: Joe Tyler | Collected date/time: 05/21/20 08:30 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486307	1	06/03/20 22:07	06/03/20 22:18	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1485960	1	06/04/20 21:20	06/05/20 01:58	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485339	1	05/30/20 10:41	06/01/20 14:38	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1485238	1	05/30/20 10:41	06/01/20 17:02	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1484968	1	06/02/20 07:56	06/03/20 06:33	KME	Mt. Juliet, TN

BH-20-2W (0-1) L1223379-06 Solid

Collected by: Joe Tyler
Collected date/time: 05/21/20 09:00
Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486307	1	06/03/20 22:07	06/03/20 22:18	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1485960	1	06/04/20 21:20	06/05/20 02:13	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485339	1	05/30/20 10:41	06/01/20 15:27	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1485238	1	05/30/20 10:41	06/01/20 17:21	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1484968	1	06/02/20 07:56	06/03/20 06:48	KME	Mt. Juliet, TN

BH-20-2W (2-3) L1223379-07 Solid

Collected by: Joe Tyler
Collected date/time: 05/21/20 09:05
Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486309	1	06/03/20 21:45	06/03/20 21:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1485960	1	06/04/20 21:20	06/05/20 02:28	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485339	1	05/30/20 10:41	06/01/20 15:48	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1485238	1	05/30/20 10:41	06/01/20 17:40	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1485512	1	06/02/20 12:46	06/02/20 19:56	KME	Mt. Juliet, TN

BH-20-2W (4-5) L1223379-08 Solid

Collected by: Joe Tyler
Collected date/time: 05/21/20 09:10
Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486309	1	06/03/20 21:45	06/03/20 21:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1485960	1	06/04/20 21:20	06/05/20 03:13	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485339	1	05/30/20 10:41	06/01/20 17:38	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1485238	1	05/30/20 10:41	06/01/20 17:59	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1485512	1	06/02/20 12:46	06/02/20 20:09	KME	Mt. Juliet, TN

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

Chris McCord
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.4		1	06/03/2020 22:18	WG1486307

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		9.64	21.0	1	06/05/2020 00:43	WG1485960

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	0.0813	B J	0.0227	0.105	1	06/01/2020 17:17	WG1485299
(S) a,a,a-Trifluorotoluene(FID)	*94.4*			*77.0-120*		*06/01/2020 17:17*	WG1485299

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000489	0.00105	1	06/01/2020 15:46	WG1485238
Toluene	U		0.00136	0.00524	1	06/01/2020 15:46	WG1485238
Ethylbenzene	U		0.000772	0.00262	1	06/01/2020 15:46	WG1485238
Total Xylenes	U		0.000922	0.00681	1	06/01/2020 15:46	WG1485238
(S) Toluene-d8	*105*			*75.0-131*		*06/01/2020 15:46*	WG1485238
(S) 4-Bromofluorobenzene	*92.4*			*67.0-138*		*06/01/2020 15:46*	WG1485238
(S) 1,2-Dichloroethane-d4	*79.4*			*70.0-130*		*06/01/2020 15:46*	WG1485238

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	10.6		1.69	4.19	1	06/05/2020 14:45	WG1484968
C28-C40 Oil Range	20.4	B	0.287	4.19	1	06/05/2020 14:45	WG1484968
(S) o-Terphenyl	*129*			*18.0-148*		*06/05/2020 14:45*	WG1484968

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.1		1	06/03/2020 22:18	WG1486307

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	18.2	J	9.38	20.4	1	06/05/2020 00:58	WG1485960

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	0.0567	B J	0.0221	0.102	1	06/01/2020 16:21	WG1485299
(S) a,a,a-Trifluorotoluene(FID)	*92.9*			*77.0-120*		*06/01/2020 16:21*	WG1485299

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		0.000476	0.00102	1	06/01/2020 16:05	WG1485238
Toluene	U		0.00133	0.00510	1	06/01/2020 16:05	WG1485238
Ethylbenzene	U		0.000751	0.00255	1	06/01/2020 16:05	WG1485238
Total Xylenes	U		0.000897	0.00663	1	06/01/2020 16:05	WG1485238
(S) Toluene-d8	*107*			*75.0-131*		*06/01/2020 16:05*	WG1485238
(S) 4-Bromofluorobenzene	*93.7*			*67.0-138*		*06/01/2020 16:05*	WG1485238
(S) 1,2-Dichloroethane-d4	*78.1*			*70.0-130*		*06/01/2020 16:05*	WG1485238

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.64	4.08	1	06/03/2020 07:04	WG1484968
C28-C40 Oil Range	1.65	B J	0.279	4.08	1	06/03/2020 07:04	WG1484968
(S) o-Terphenyl	*70.9*			*18.0-148*		*06/03/2020 07:04*	WG1484968

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.3		1	06/03/2020 22:18	WG1486307

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	47.6		9.45	20.5	1	06/05/2020 01:13	WG1485960

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	0.0497	B J	0.0223	0.103	1	06/01/2020 17:40	WG1485299
(S) a,a,a-Trifluorotoluene(FID)	*96.0*			*77.0-120*		*06/01/2020 17:40*	WG1485299

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		0.000480	0.00103	1	06/01/2020 16:24	WG1485238
Toluene	U		0.00134	0.00514	1	06/01/2020 16:24	WG1485238
Ethylbenzene	U		0.000757	0.00257	1	06/01/2020 16:24	WG1485238
Total Xylenes	U		0.000904	0.00668	1	06/01/2020 16:24	WG1485238
(S) Toluene-d8	*106*			*75.0-131*		*06/01/2020 16:24*	WG1485238
(S) 4-Bromofluorobenzene	*92.7*			*67.0-138*		*06/01/2020 16:24*	WG1485238
(S) 1,2-Dichloroethane-d4	*75.9*			*70.0-130*		*06/01/2020 16:24*	WG1485238

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	06/03/2020 06:01	WG1484968
C28-C40 Oil Range	1.32	B J	0.282	4.11	1	06/03/2020 06:01	WG1484968
(S) o-Terphenyl	*67.7*			*18.0-148*		*06/03/2020 06:01*	WG1484968

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.6		1	06/03/2020 22:18	WG1486307

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	175		9.62	20.9	1	06/05/2020 01:28	WG1485960

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	0.0463	B J	0.0227	0.105	1	06/01/2020 18:02	WG1485299
(S) a,a,a-Trifluorotoluene(FID)	*95.9*			*77.0-120*		*06/01/2020 18:02*	WG1485299

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		0.000488	0.00105	1	06/01/2020 16:43	WG1485238
Toluene	U		0.00136	0.00523	1	06/01/2020 16:43	WG1485238
Ethylbenzene	U		0.000771	0.00261	1	06/01/2020 16:43	WG1485238
Total Xylenes	U		0.000920	0.00680	1	06/01/2020 16:43	WG1485238
(S) Toluene-d8	*108*			*75.0-131*		*06/01/2020 16:43*	WG1485238
(S) 4-Bromofluorobenzene	*93.0*			*67.0-138*		*06/01/2020 16:43*	WG1485238
(S) 1,2-Dichloroethane-d4	*75.9*			*70.0-130*		*06/01/2020 16:43*	WG1485238

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.68	4.18	1	06/03/2020 06:17	WG1484968
C28-C40 Oil Range	U		0.287	4.18	1	06/03/2020 06:17	WG1484968
(S) o-Terphenyl	*72.0*			*18.0-148*		*06/03/2020 06:17*	WG1484968

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.9		1	06/03/2020 22:18	WG1486307

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	191		9.59	20.9	1	06/05/2020 01:58	WG1485960

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		0.0226	0.104	1	06/01/2020 14:38	WG1485339
(S) a,a,a-Trifluorotoluene(FID)	*102*			*77.0-120*		*06/01/2020 14:38*	WG1485339

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	06/01/2020 17:02	WG1485238
Toluene	U		0.00136	0.00521	1	06/01/2020 17:02	WG1485238
Ethylbenzene	U		0.000768	0.00261	1	06/01/2020 17:02	WG1485238
Total Xylenes	U		0.000918	0.00678	1	06/01/2020 17:02	WG1485238
(S) Toluene-d8	*107*			*75.0-131*		*06/01/2020 17:02*	WG1485238
(S) 4-Bromofluorobenzene	*92.6*			*67.0-138*		*06/01/2020 17:02*	WG1485238
(S) 1,2-Dichloroethane-d4	*72.6*			*70.0-130*		*06/01/2020 17:02*	WG1485238

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.68	4.17	1	06/03/2020 06:33	WG1484968
C28-C40 Oil Range	U		0.286	4.17	1	06/03/2020 06:33	WG1484968
(S) o-Terphenyl	*67.8*			*18.0-148*		*06/03/2020 06:33*	WG1484968

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.8		1	06/03/2020 22:18	WG1486307

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	128		9.51	20.7	1	06/05/2020 02:13	WG1485960

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	06/01/2020 15:27	WG1485339
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*06/01/2020 15:27*	WG1485339

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000483	0.00103	1	06/01/2020 17:21	WG1485238
Toluene	U		0.00134	0.00517	1	06/01/2020 17:21	WG1485238
Ethylbenzene	U		0.000762	0.00258	1	06/01/2020 17:21	WG1485238
Total Xylenes	U		0.000909	0.00672	1	06/01/2020 17:21	WG1485238
(S) Toluene-d8	*107*			*75.0-131*		*06/01/2020 17:21*	WG1485238
(S) 4-Bromofluorobenzene	*93.1*			*67.0-138*		*06/01/2020 17:21*	WG1485238
(S) 1,2-Dichloroethane-d4	*73.8*			*70.0-130*		*06/01/2020 17:21*	WG1485238

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	2.58	J	1.66	4.13	1	06/03/2020 06:48	WG1484968
C28-C40 Oil Range	5.61	B	0.283	4.13	1	06/03/2020 06:48	WG1484968
(S) o-Terphenyl	*70.0*			*18.0-148*		*06/03/2020 06:48*	WG1484968

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.8		1	06/03/2020 21:57	WG1486309

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	315		9.40	20.4	1	06/05/2020 02:28	WG1485960

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0222	0.102	1	06/01/2020 15:48	WG1485339
(S) a,a,a-Trifluorotoluene(FID)	*97.4*			*77.0-120*		*06/01/2020 15:48*	WG1485339

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	06/01/2020 17:40	WG1485238
Toluene	U		0.00133	0.00511	1	06/01/2020 17:40	WG1485238
Ethylbenzene	U		0.000753	0.00256	1	06/01/2020 17:40	WG1485238
Total Xylenes	U		0.000900	0.00664	1	06/01/2020 17:40	WG1485238
(S) Toluene-d8	*108*			*75.0-131*		*06/01/2020 17:40*	WG1485238
(S) 4-Bromofluorobenzene	*92.4*			*67.0-138*		*06/01/2020 17:40*	WG1485238
(S) 1,2-Dichloroethane-d4	*73.8*			*70.0-130*		*06/01/2020 17:40*	WG1485238

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	4.09	1	06/02/2020 19:56	WG1485512
C28-C40 Oil Range	3.02	B J	0.280	4.09	1	06/02/2020 19:56	WG1485512
(S) o-Terphenyl	*75.8*			*18.0-148*		*06/02/2020 19:56*	WG1485512

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.7		1	06/03/2020 21:57	WG1486309

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	278		9.62	20.9	1	06/05/2020 03:13	WG1485960

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0227	0.105	1	06/01/2020 17:38	WG1485339
(S) a,a,a-Trifluorotoluene(FID)	*106*			*77.0-120*		*06/01/2020 17:38*	WG1485339

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		0.000488	0.00105	1	06/01/2020 17:59	WG1485238
Toluene	U		0.00136	0.00523	1	06/01/2020 17:59	WG1485238
Ethylbenzene	U		0.000770	0.00261	1	06/01/2020 17:59	WG1485238
Total Xylenes	U		0.000920	0.00679	1	06/01/2020 17:59	WG1485238
(S) Toluene-d8	*108*			*75.0-131*		*06/01/2020 17:59*	WG1485238
(S) 4-Bromofluorobenzene	*92.9*			*67.0-138*		*06/01/2020 17:59*	WG1485238
(S) 1,2-Dichloroethane-d4	*78.6*			*70.0-130*		*06/01/2020 17:59*	WG1485238

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.68	4.18	1	06/02/2020 20:09	WG1485512
C28-C40 Oil Range	0.839	B J	0.286	4.18	1	06/02/2020 20:09	WG1485512
(S) o-Terphenyl	*70.0*			*18.0-148*		*06/02/2020 20:09*	WG1485512

Method Blank (MB)

(MB) R3535059-1 06/03/20 22:18

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

L1223377-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1223377-03 06/03/20 22:18 • (DUP) R3535059-3 06/03/20 22:18

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	92.7	92.5	1	0.259		10

Laboratory Control Sample (LCS)

(LCS) R3535059-2 06/03/20 22:18

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) R3535057-1 06/03/20 21:57

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

Original Sample (OS) • Duplicate (DUP)

(OS) • (DUP) R3535057-3 06/03/20 21:57

Analyte	Original Result	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids		93.9	1	0.947		10

Laboratory Control Sample (LCS)

(LCS) R3535057-2 06/03/20 21:57

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

Method Blank (MB)

(MB) R3535396-1 06/04/20 23:59

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

L1223379-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1223379-04 06/05/20 01:28 • (DUP) R3535396-3 06/05/20 01:43

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	175	174	1	0.587		20

L1223380-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1223380-08 06/05/20 06:12 • (DUP) R3535396-6 06/05/20 06:27

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	24.0	25.2	1	4.90		20

Laboratory Control Sample (LCS)

(LCS) R3535396-2 06/05/20 00:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	206	103	90.0-110	

L1223379-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1223379-08 06/05/20 03:13 • (MS) R3535396-4 06/05/20 03:28 • (MSD) R3535396-5 06/05/20 03:43

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	523	278	817	804	103	101	1	80.0-120			1.66	20

Method Blank (MB)

(MB) R3534835-2 06/01/20 12:31

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0462	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*96.5*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3534835-1 06/01/20 11:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.06	92.0	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*101*	*77.0-120*	

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) • (MS) R3534835-3 06/01/20 23:50 • (MSD) R3534835-4 06/02/20 00:12

Analyte	Spike Amount mg/kg	Original Result	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	2750		4800	4990	93.1	100	500	10.0-151			3.88	28
(S) a,a,a-Trifluorotoluene(FID)					*115*	*116*		*77.0-120*				

Method Blank (MB)

(MB) R3534748-2 06/01/20 12:27

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*104*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3534748-1 06/01/20 11:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.46	81.1	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*95.4*	*77.0-120*	

Method Blank (MB)

(MB) R3534254-3 06/01/20 12:21

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	0.00145	J	0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*110*			*75.0-131*
(S) 4-Bromofluorobenzene	*93.9*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*81.3*			*70.0-130*

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

(LCS) R3534254-1 06/01/20 09:12 • (LCSD) R3534254-2 06/01/20 09:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.113	0.110	90.4	88.0	70.0-123			2.69	20
Ethylbenzene	0.125	0.116	0.110	92.8	88.0	74.0-126			5.31	20
Toluene	0.125	0.118	0.115	94.4	92.0	75.0-121			2.58	20
Xylenes, Total	0.375	0.362	0.345	96.5	92.0	72.0-127			4.81	20
(S) Toluene-d8				*99.8*	*100*	*75.0-131*				
(S) 4-Bromofluorobenzene				*97.2*	*94.9*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*95.6*	*91.9*	*70.0-130*				

L1223379-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1223379-03 06/01/20 16:24 • (MS) R3534254-4 06/01/20 20:30 • (MSD) R3534254-5 06/01/20 20:49

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	0.128	U	0.0924	0.101	71.9	78.7	1	10.0-149			9.03	37
Ethylbenzene	0.128	U	0.0938	0.103	73.0	80.0	1	10.0-160			9.10	38
Toluene	0.128	U	0.105	0.115	81.6	89.6	1	10.0-156			9.35	38
Xylenes, Total	0.385	U	0.298	0.328	77.3	85.1	1	10.0-160			9.52	38
(S) Toluene-d8					*107*	*105*		*75.0-131*				
(S) 4-Bromofluorobenzene					*92.4*	*92.7*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*76.6*	*80.2*		*70.0-130*				

Method Blank (MB)

(MB) R3534522-1 06/03/20 04:25

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	2.60	J	0.274	4.00
(S) o-Terphenyl	*68.2*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3534522-2 06/03/20 04:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	34.6	69.2	50.0-150	
(S) o-Terphenyl			*59.0*	*18.0-148*	

Method Blank (MB)

(MB) R3534383-1 06/02/20 19:30

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	0.428	J	0.274	4.00
(S) o-Terphenyl	*64.4*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3534383-2 06/02/20 19:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	36.6	73.2	50.0-150	
(S) o-Terphenyl			*84.1*	*18.0-148*	

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) • (MS) R3534744-1 06/03/20 18:16 • (MSD) R3534744-2 06/03/20 18:30

Analyte	Spike Amount mg/kg	Original Result	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	53.7		355	355	120	120	5	50.0-150			0.000	20
(S) o-Terphenyl					*56.9*	*62.2*		*18.0-148*				

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

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

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

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

State Accreditations

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

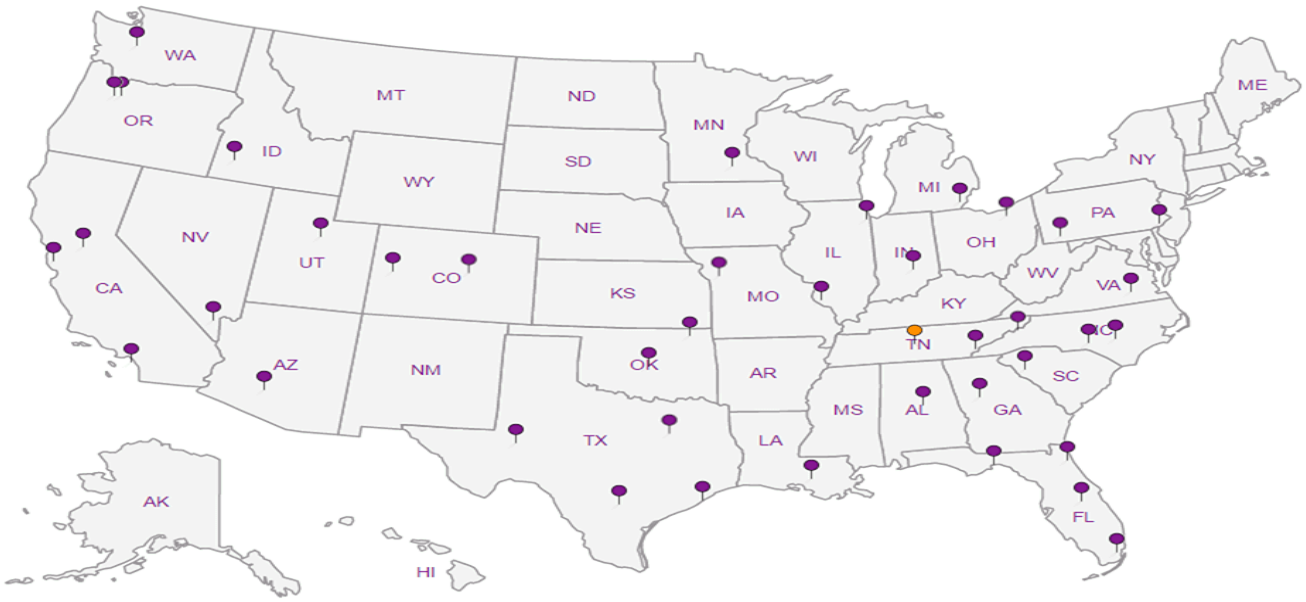
Third Party Federal Accreditations

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

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

Our Locations

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



ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
ConocoPhillips - Tetra Tech	212C-MD-01929	L1223379	06/08/20 17:54	23 of 25

Analysis Request of Chain of Custody Record

Page : 1 of 1

Tetra Tech, Inc.

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

1223379

Client Name:	Conco Phillips	**Site Manager:**	Christian Llull
Project Name:	EVGSAU 3308-007	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-01929
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Joe Tyler
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

F019

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD NONE	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
	BH-20-1W (0'-1')	05/21/20	0800		X				X			1	N	X		X												X						01
	BH-20-1W (2'-3')	05/21/20	0805		X				X			1	N	X		X												X						02
	BH-20-1W (4'-5')	05/21/20	0810		X				X			1	N	X		X												X						03
	BH-20-1W (6'-7')	05/21/20	0820		X				X			1	N	X		X												X						04
	BH-20-1W (9'-10')	05/21/20	0830		X				X			1	N	X		X												X						05
	BH-20-2W (0'-1')	05/21/20	0900		X				X			1	N	X		X												X						06
	BH-20-2W (2'-3')	05/21/20	0905		X				X			1	N	X		X												X						07
	BH-20-2W (4'-5')	05/21/20	0910		X				X			1	N	X		X												X						08

Relinquished by: Bill D. Travis	Date: 5-28-20	Time: 12:30	Received by: [signature]
Relinquished by: [signature]	Date: 5-28-20	Time: 16:00	Received by: FedEx
Relinquished by:	Date:	Time:	Received by: L. Walter

Date: 5-28-20 Time: 12:30
Date: 5-28-20 Time: 16:00
Date: 5/29/20 Time: 09:00

ORIGINAL COPY

LAB USE ONLY

Sample Temperature

REMARKS:

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

1790 3030 2916

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client:	COPHOTRA	122319	
Cooler Received/Opened On:	5 /12 9 / 20	Temperature:	Amb
Received By:	Lakeacher Webster		
Signature:	L. Webster		

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

June 10, 2020

ConocoPhillips - Tetra Tech

Sample Delivery Group:	L1223523
Samples Received:	05/29/2020
Project Number:	212C-MD-01576
Description:	EVGSAU 3366-029
Site:	LEA COUNTY, NM
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

BH-20-1 (0-1) L1223523-01 Solid

Collected by: Joe Tyler | Collected date/time: 05/20/20 14:00 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486415	1	06/04/20 14:11	06/04/20 14:19	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486008	1	06/03/20 09:34	06/03/20 17:53	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485898	1	06/02/20 08:39	06/03/20 09:18	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:39	06/03/20 00:25	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 23:47	KME	Mt. Juliet, TN

BH-20-1 (2-3) L1223523-02 Solid

Collected by: Joe Tyler | Collected date/time: 05/20/20 14:05 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486415	1	06/04/20 14:11	06/04/20 14:19	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486008	5	06/03/20 09:34	06/03/20 18:02	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485898	1	06/02/20 08:39	06/03/20 09:42	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:39	06/03/20 00:46	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 23:21	KME	Mt. Juliet, TN

BH-20-1 (4-5) L1223523-03 Solid

Collected by: Joe Tyler | Collected date/time: 05/20/20 14:10 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486415	1	06/04/20 14:11	06/04/20 14:19	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486008	1	06/03/20 09:34	06/03/20 18:31	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485898	1	06/02/20 08:39	06/03/20 10:06	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:39	06/03/20 01:06	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 20:42	KME	Mt. Juliet, TN

BH-20-1 (6-7) L1223523-04 Solid

Collected by: Joe Tyler | Collected date/time: 05/20/20 14:15 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486415	1	06/04/20 14:11	06/04/20 14:19	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486008	5	06/03/20 09:34	06/03/20 18:40	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486356	1	06/02/20 08:39	06/03/20 16:01	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:39	06/03/20 01:26	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 20:56	KME	Mt. Juliet, TN

BH-20-1 (9-10) L1223523-05 Solid

Collected by: Joe Tyler | Collected date/time: 05/20/20 14:20 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486419	1	06/04/20 18:06	06/04/20 18:21	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486008	1	06/03/20 09:34	06/03/20 18:50	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486356	1	06/02/20 08:39	06/03/20 16:25	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486515	1	06/02/20 08:39	06/03/20 15:21	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 21:09	KME	Mt. Juliet, TN

BH-20-1 (14-15) L1223523-06 Solid

Collected by: Joe Tyler | Collected date/time: 05/20/20 14:30 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486419	1	06/04/20 18:06	06/04/20 18:21	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486008	1	06/03/20 09:34	06/03/20 18:59	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486356	1	06/02/20 08:39	06/03/20 16:49	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:39	06/03/20 02:07	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 21:22	KME	Mt. Juliet, TN

BH-20-2 (0-1) L1223523-07 Solid

Collected by: Joe Tyler | Collected date/time: 05/20/20 14:50 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486419	1	06/04/20 18:06	06/04/20 18:21	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486008	5	06/03/20 09:34	06/03/20 19:18	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486356	1	06/02/20 08:39	06/03/20 17:12	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:39	06/03/20 02:28	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	5	06/03/20 05:20	06/04/20 00:26	KME	Mt. Juliet, TN

BH-20-2 (2-3) L1223523-08 Solid

Collected by: Joe Tyler | Collected date/time: 05/20/20 15:00 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486419	1	06/04/20 18:06	06/04/20 18:21	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	5	06/02/20 22:30	06/03/20 02:24	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486242	1	06/02/20 08:39	06/03/20 09:55	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:39	06/03/20 02:48	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 23:34	KME	Mt. Juliet, TN

BH-20-2 (4-5) L1223523-09 Solid

Collected by: Joe Tyler | Collected date/time: 05/20/20 15:05 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486420	1	06/04/20 17:43	06/04/20 18:01	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	5	06/02/20 22:30	06/03/20 02:57	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486242	1	06/02/20 08:39	06/03/20 10:18	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:39	06/03/20 03:08	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 23:08	KME	Mt. Juliet, TN

BH-20-2 (6-7) L1223523-10 Solid

Collected by: Joe Tyler | Collected date/time: 05/20/20 15:10 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486420	1	06/04/20 17:43	06/04/20 18:01	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	5	06/02/20 22:30	06/03/20 03:14	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486242	1	06/02/20 08:39	06/03/20 10:40	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:39	06/03/20 03:29	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 22:54	KME	Mt. Juliet, TN

BH-20-2 (9-10) L1223523-11 Solid

Collected by: Joe Tyler | Collected date/time: 05/20/20 15:20 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486420	1	06/04/20 17:43	06/04/20 18:01	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	5	06/02/20 22:30	06/03/20 03:31	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486242	1	06/02/20 08:39	06/03/20 11:02	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:39	06/03/20 03:49	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 21:35	KME	Mt. Juliet, TN

BH-20-2 (14-15) L1223523-12 Solid

Collected by: Joe Tyler | Collected date/time: 05/20/20 15:30 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486420	1	06/04/20 17:43	06/04/20 18:01	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	5	06/02/20 22:30	06/03/20 03:48	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486242	1	06/02/20 08:39	06/03/20 11:25	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:39	06/03/20 04:09	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 21:49	KME	Mt. Juliet, TN

BH-20-2 (19-20) L1223523-13 Solid

Collected by: Joe Tyler | Collected date/time: 05/20/20 15:40 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486420	1	06/04/20 17:43	06/04/20 18:01	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	10	06/02/20 22:30	06/03/20 04:05	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486589	1	06/02/20 08:39	06/03/20 16:06	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:39	06/03/20 04:30	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 22:02	KME	Mt. Juliet, TN

BH-20-2 (24-25) L1223523-14 Solid

Collected by: Joe Tyler | Collected date/time: 05/20/20 15:50 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486420	1	06/04/20 17:43	06/04/20 18:01	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	5	06/02/20 22:30	06/03/20 05:47	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486242	1	06/02/20 08:49	06/03/20 12:10	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:49	06/03/20 04:50	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 22:15	KME	Mt. Juliet, TN

BH-20-2 (29-30) L1223523-15 Solid

Collected by: Joe Tyler | Collected date/time: 05/20/20 16:10 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486420	1	06/04/20 17:43	06/04/20 18:01	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	10	06/02/20 22:30	06/03/20 06:03	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486242	1	06/02/20 08:49	06/03/20 12:32	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:49	06/03/20 05:10	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 22:28	KME	Mt. Juliet, TN

BH-20-2 (39-40) L1223523-16 Solid

Collected by: Joe Tyler | Collected date/time: 05/20/20 16:30 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486420	1	06/04/20 17:43	06/04/20 18:01	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	1	06/02/20 22:30	06/03/20 06:20	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486242	1	06/02/20 08:49	06/03/20 12:54	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:49	06/03/20 05:31	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 22:41	KME	Mt. Juliet, TN

BH-20-3 (0-1) L1223523-17 Solid

Collected by: Joe Tyler | Collected date/time: 05/21/20 10:00 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486420	1	06/04/20 17:43	06/04/20 18:01	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	1	06/02/20 22:30	06/03/20 06:37	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486611	1	06/02/20 08:49	06/04/20 09:57	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:49	06/03/20 05:51	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486508	1	06/03/20 19:01	06/08/20 02:30	JN	Mt. Juliet, TN

BH-20-3 (2-3) L1223523-18 Solid

Collected by: Joe Tyler | Collected date/time: 05/21/20 10:05 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486420	1	06/04/20 17:43	06/04/20 18:01	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	1	06/02/20 22:30	06/03/20 06:54	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486611	1	06/02/20 08:49	06/04/20 10:21	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:49	06/03/20 06:11	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486508	1	06/03/20 19:01	06/08/20 22:24	DMG	Mt. Juliet, TN

BH-20-3 (4-5) L1223523-19 Solid

Collected by: Joe Tyler | Collected date/time: 05/21/20 10:10 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486421	1	06/04/20 17:24	06/04/20 17:36	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	1	06/02/20 22:30	06/03/20 07:11	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486611	1	06/02/20 08:49	06/04/20 10:45	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:49	06/03/20 06:32	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486508	1	06/03/20 19:01	06/08/20 00:31	JN	Mt. Juliet, TN

BH-20-4 (0-1) L1223523-20 Solid

Collected by: Joe Tyler | Collected date/time: 05/21/20 10:40 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486421	1	06/04/20 17:24	06/04/20 17:36	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	1	06/02/20 22:30	06/03/20 07:28	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486611	1	06/02/20 08:49	06/04/20 11:09	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:49	06/03/20 06:52	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486508	1	06/03/20 19:01	06/08/20 02:56	JN	Mt. Juliet, TN

BH-20-4 (2-3) L1223523-21 Solid

Collected by: Joe Tyler | Collected date/time: 05/21/20 10:45 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486421	1	06/04/20 17:24	06/04/20 17:36	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	1	06/02/20 22:30	06/03/20 07:45	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486611	1	06/02/20 08:49	06/04/20 11:33	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486258	1	06/02/20 08:49	06/03/20 09:37	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486508	1	06/03/20 19:01	06/08/20 02:43	JN	Mt. Juliet, TN

BH-20-4 (4-5) L1223523-22 Solid

Collected by: Joe Tyler | Collected date/time: 05/21/20 10:50 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486421	1	06/04/20 17:24	06/04/20 17:36	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	1	06/02/20 22:30	06/03/20 08:36	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486611	1	06/02/20 08:49	06/04/20 11:57	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486258	1	06/02/20 08:49	06/03/20 09:56	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486508	1	06/03/20 19:01	06/08/20 00:44	JN	Mt. Juliet, TN

BH-20-5 (0-1) L1223523-23 Solid

Collected by: Joe Tyler | Collected date/time: 05/21/20 11:30 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486421	1	06/04/20 17:24	06/04/20 17:36	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	1	06/02/20 22:30	06/03/20 08:53	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486617	1	06/02/20 08:49	06/04/20 01:24	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486258	1	06/02/20 08:49	06/03/20 10:15	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486508	10	06/03/20 19:01	06/08/20 03:36	JN	Mt. Juliet, TN

BH-20-5 (2-3) L1223523-24 Solid

Collected by: Joe Tyler | Collected date/time: 05/21/20 11:35 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486421	1	06/04/20 17:24	06/04/20 17:36	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	1	06/02/20 22:30	06/03/20 09:10	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486617	1	06/02/20 08:49	06/04/20 01:44	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486294	1	06/02/20 08:49	06/03/20 10:13	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486508	1	06/03/20 19:01	06/08/20 03:10	JN	Mt. Juliet, TN

BH-20-5 (4-5) L1223523-25 Solid

Collected by: Joe Tyler | Collected date/time: 05/21/20 11:40 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486421	1	06/04/20 17:24	06/04/20 17:36	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	1	06/02/20 22:30	06/03/20 09:26	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486617	1	06/02/20 08:49	06/04/20 02:05	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486294	1	06/02/20 08:49	06/03/20 10:33	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486508	1	06/03/20 19:01	06/08/20 00:57	JN	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1488541	1	06/09/20 04:05	06/09/20 13:28	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	93.6		1	06/04/2020 14:19	WG1486415

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	232		9.83	21.4	1	06/03/2020 17:53	WG1486008

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0232	0.107	1	06/03/2020 09:18	WG1485898
(S) a,a,a-Trifluorotoluene(FID)	*96.9*			*77.0-120*		*06/03/2020 09:18*	WG1485898

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	06/03/2020 00:25	WG1486129
Toluene	U		0.00139	0.00534	1	06/03/2020 00:25	WG1486129
Ethylbenzene	U		0.000787	0.00267	1	06/03/2020 00:25	WG1486129
Total Xylenes	U		0.000940	0.00694	1	06/03/2020 00:25	WG1486129
(S) Toluene-d8	*113*			*75.0-131*		*06/03/2020 00:25*	WG1486129
(S) 4-Bromofluorobenzene	*87.7*			*67.0-138*		*06/03/2020 00:25*	WG1486129
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*06/03/2020 00:25*	WG1486129

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	25.4		1.72	4.27	1	06/03/2020 23:47	WG1486068
C28-C40 Oil Range	69.9		0.293	4.27	1	06/03/2020 23:47	WG1486068
(S) o-Terphenyl	*77.8*			*18.0-148*		*06/03/2020 23:47*	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.4		1	06/04/2020 14:19	WG1486415

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	1170		50.9	111	5	06/03/2020 18:02	WG1486008

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	0.111	1	06/03/2020 09:42	WG1485898
(S) a,a,a-Trifluorotoluene(FID)	*99.3*			*77.0-120*		*06/03/2020 09:42*	WG1485898

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		0.000517	0.00111	1	06/03/2020 00:46	WG1486129
Toluene	U		0.00144	0.00553	1	06/03/2020 00:46	WG1486129
Ethylbenzene	U		0.000815	0.00277	1	06/03/2020 00:46	WG1486129
Total Xylenes	U		0.000974	0.00719	1	06/03/2020 00:46	WG1486129
(S) Toluene-d8	*115*			*75.0-131*		*06/03/2020 00:46*	WG1486129
(S) 4-Bromofluorobenzene	*98.6*			*67.0-138*		*06/03/2020 00:46*	WG1486129
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*06/03/2020 00:46*	WG1486129

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	5.17		1.78	4.43	1	06/03/2020 23:21	WG1486068
C28-C40 Oil Range	12.6		0.303	4.43	1	06/03/2020 23:21	WG1486068
(S) o-Terphenyl	*71.0*			*18.0-148*		*06/03/2020 23:21*	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.8		1	06/04/2020 14:19	WG1486415

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	574		9.50	20.7	1	06/03/2020 18:31	WG1486008

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	06/03/2020 10:06	WG1485898
(S) a,a,a-Trifluorotoluene(FID)	*96.8*			*77.0-120*		*06/03/2020 10:06*	WG1485898

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		0.000482	0.00103	1	06/03/2020 01:06	WG1486129
Toluene	U		0.00134	0.00516	1	06/03/2020 01:06	WG1486129
Ethylbenzene	U		0.000761	0.00258	1	06/03/2020 01:06	WG1486129
Total Xylenes	U		0.000909	0.00671	1	06/03/2020 01:06	WG1486129
(S) Toluene-d8	*120*			*75.0-131*		*06/03/2020 01:06*	WG1486129
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*06/03/2020 01:06*	WG1486129
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*06/03/2020 01:06*	WG1486129

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	06/03/2020 20:42	WG1486068
C28-C40 Oil Range	2.60	J	0.283	4.13	1	06/03/2020 20:42	WG1486068
(S) o-Terphenyl	*86.8*			*18.0-148*		*06/03/2020 20:42*	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.5		1	06/04/2020 14:19	WG1486415

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	1870		50.3	109	5	06/03/2020 18:40	WG1486008

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	06/03/2020 16:01	WG1486356
(S) a,a,a-Trifluorotoluene(FID)	*99.9*			*77.0-120*		*06/03/2020 16:01*	WG1486356

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		0.000510	0.00109	1	06/03/2020 01:26	WG1486129
Toluene	U		0.00142	0.00546	1	06/03/2020 01:26	WG1486129
Ethylbenzene	U		0.000806	0.00273	1	06/03/2020 01:26	WG1486129
Total Xylenes	U		0.000962	0.00710	1	06/03/2020 01:26	WG1486129
(S) Toluene-d8	*116*			*75.0-131*		*06/03/2020 01:26*	WG1486129
(S) 4-Bromofluorobenzene	*98.7*			*67.0-138*		*06/03/2020 01:26*	WG1486129
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*06/03/2020 01:26*	WG1486129

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	4.37	1	06/03/2020 20:56	WG1486068
C28-C40 Oil Range	0.632	J	0.299	4.37	1	06/03/2020 20:56	WG1486068
(S) o-Terphenyl	*65.0*			*18.0-148*		*06/03/2020 20:56*	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.9		1	06/04/2020 18:21	WG1486419

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	375		9.70	21.1	1	06/03/2020 18:50	WG1486008

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		0.0229	0.105	1	06/03/2020 16:25	WG1486356
(S) a,a,a-Trifluorotoluene(FID)	*97.5*			*77.0-120*		*06/03/2020 16:25*	WG1486356

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	06/03/2020 15:21	WG1486515
Toluene	U		0.00137	0.00527	1	06/03/2020 15:21	WG1486515
Ethylbenzene	U		0.000777	0.00264	1	06/03/2020 15:21	WG1486515
Total Xylenes	0.00111	J	0.000928	0.00685	1	06/03/2020 15:21	WG1486515
(S) Toluene-d8	*108*			*75.0-131*		*06/03/2020 15:21*	WG1486515
(S) 4-Bromofluorobenzene	*118*			*67.0-138*		*06/03/2020 15:21*	WG1486515
(S) 1,2-Dichloroethane-d4	*77.3*			*70.0-130*		*06/03/2020 15:21*	WG1486515

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.70	4.22	1	06/03/2020 21:09	WG1486068
C28-C40 Oil Range	0.958	J	0.289	4.22	1	06/03/2020 21:09	WG1486068
(S) o-Terphenyl	*62.2*			*18.0-148*		*06/03/2020 21:09*	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.9		1	06/04/2020 18:21	WG1486419

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	124		9.50	20.6	1	06/03/2020 18:59	WG1486008

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	06/03/2020 16:49	WG1486356
(S) a,a,a-Trifluorotoluene(FID)	*98.4*			*77.0-120*		*06/03/2020 16:49*	WG1486356

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		0.000482	0.00103	1	06/03/2020 02:07	WG1486129
Toluene	U		0.00134	0.00516	1	06/03/2020 02:07	WG1486129
Ethylbenzene	U		0.000761	0.00258	1	06/03/2020 02:07	WG1486129
Total Xylenes	U		0.000908	0.00671	1	06/03/2020 02:07	WG1486129
(S) Toluene-d8	*116*			*75.0-131*		*06/03/2020 02:07*	WG1486129
(S) 4-Bromofluorobenzene	*97.8*			*67.0-138*		*06/03/2020 02:07*	WG1486129
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*06/03/2020 02:07*	WG1486129

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	06/03/2020 21:22	WG1486068
C28-C40 Oil Range	U		0.283	4.13	1	06/03/2020 21:22	WG1486068
(S) o-Terphenyl	*73.3*			*18.0-148*		*06/03/2020 21:22*	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.1		1	06/04/2020 18:21	WG1486419

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	1290		49.4	107	5	06/03/2020 19:18	WG1486008

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0233	0.107	1	06/03/2020 17:12	WG1486356
(S) a,a,a-Trifluorotoluene(FID)	*95.8*			*77.0-120*		*06/03/2020 17:12*	WG1486356

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		0.000502	0.00107	1	06/03/2020 02:28	WG1486129
Toluene	U		0.00140	0.00537	1	06/03/2020 02:28	WG1486129
Ethylbenzene	U		0.000792	0.00269	1	06/03/2020 02:28	WG1486129
Total Xylenes	U		0.000946	0.00698	1	06/03/2020 02:28	WG1486129
(S) Toluene-d8	*114*			*75.0-131*		*06/03/2020 02:28*	WG1486129
(S) 4-Bromofluorobenzene	*98.7*			*67.0-138*		*06/03/2020 02:28*	WG1486129
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*06/03/2020 02:28*	WG1486129

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	351		8.65	21.5	5	06/04/2020 00:26	WG1486068
C28-C40 Oil Range	750		1.47	21.5	5	06/04/2020 00:26	WG1486068
(S) o-Terphenyl	*106*			*18.0-148*		*06/04/2020 00:26*	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.3		1	06/04/2020 18:21	WG1486419

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1320		50.9	111	5	06/03/2020 02:24	WG1486010

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	0.0623	B J	0.0240	0.111	1	06/03/2020 09:55	WG1486242
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*77.0-120*		*06/03/2020 09:55*	WG1486242

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		0.000517	0.00111	1	06/03/2020 02:48	WG1486129
Toluene	U		0.00144	0.00554	1	06/03/2020 02:48	WG1486129
Ethylbenzene	U		0.000816	0.00277	1	06/03/2020 02:48	WG1486129
Total Xylenes	U		0.000974	0.00720	1	06/03/2020 02:48	WG1486129
(S) Toluene-d8	*113*			*75.0-131*		*06/03/2020 02:48*	WG1486129
(S) 4-Bromofluorobenzene	*97.9*			*67.0-138*		*06/03/2020 02:48*	WG1486129
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*06/03/2020 02:48*	WG1486129

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	30.5		1.78	4.43	1	06/03/2020 23:34	WG1486068
C28-C40 Oil Range	63.0		0.303	4.43	1	06/03/2020 23:34	WG1486068
(S) o-Terphenyl	*52.4*			*18.0-148*		*06/03/2020 23:34*	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.0		1	06/04/2020 18:01	WG1486420

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	1160		47.4	103	5	06/03/2020 02:57	WG1486010

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	0.0572	B J	0.0224	0.103	1	06/03/2020 10:18	WG1486242
(S) a,a,a-Trifluorotoluene(FID)	*99.0*			*77.0-120*		*06/03/2020 10:18*	WG1486242

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	06/03/2020 03:08	WG1486129
Toluene	U		0.00134	0.00515	1	06/03/2020 03:08	WG1486129
Ethylbenzene	U		0.000760	0.00258	1	06/03/2020 03:08	WG1486129
Total Xylenes	U		0.000907	0.00670	1	06/03/2020 03:08	WG1486129
(S) Toluene-d8	*184*	J1		*75.0-131*		*06/03/2020 03:08*	WG1486129
(S) 4-Bromofluorobenzene	*99.0*			*67.0-138*		*06/03/2020 03:08*	WG1486129
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*06/03/2020 03:08*	WG1486129

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	9.63		1.66	4.12	1	06/03/2020 23:08	WG1486068
C28-C40 Oil Range	16.9		0.282	4.12	1	06/03/2020 23:08	WG1486068
(S) o-Terphenyl	*72.3*			*18.0-148*		*06/03/2020 23:08*	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.7		1	06/04/2020 18:01	WG1486420

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	875		47.1	102	5	06/03/2020 03:14	WG1486010

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	0.0487	B J	0.0222	0.102	1	06/03/2020 10:40	WG1486242
(S) a,a,a-Trifluorotoluene(FID)	*99.1*			*77.0-120*		*06/03/2020 10:40*	WG1486242

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000478	0.00102	1	06/03/2020 03:29	WG1486129
Toluene	U		0.00133	0.00512	1	06/03/2020 03:29	WG1486129
Ethylbenzene	U		0.000754	0.00256	1	06/03/2020 03:29	WG1486129
Total Xylenes	U		0.000901	0.00665	1	06/03/2020 03:29	WG1486129
(S) Toluene-d8	*113*			*75.0-131*		*06/03/2020 03:29*	WG1486129
(S) 4-Bromofluorobenzene	*97.9*			*67.0-138*		*06/03/2020 03:29*	WG1486129
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*06/03/2020 03:29*	WG1486129

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	2.07	J	1.65	4.09	1	06/03/2020 22:54	WG1486068
C28-C40 Oil Range	3.00	J	0.280	4.09	1	06/03/2020 22:54	WG1486068
(S) o-Terphenyl	*67.4*			*18.0-148*		*06/03/2020 22:54*	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.2		1	06/04/2020 18:01	WG1486420

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	781		46.4	101	5	06/03/2020 03:31	WG1486010

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	0.0219	0.101	1	06/03/2020 11:02	WG1486242
(S) a,a,a-Trifluorotoluene(FID)	*99.2*			*77.0-120*		*06/03/2020 11:02*	WG1486242

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000471	0.00101	1	06/03/2020 03:49	WG1486129
Toluene	U		0.00131	0.00504	1	06/03/2020 03:49	WG1486129
Ethylbenzene	U		0.000743	0.00252	1	06/03/2020 03:49	WG1486129
Total Xylenes	U		0.000887	0.00655	1	06/03/2020 03:49	WG1486129
(S) Toluene-d8	*136*	J1		*75.0-131*		*06/03/2020 03:49*	WG1486129
(S) 4-Bromofluorobenzene	*72.0*			*67.0-138*		*06/03/2020 03:49*	WG1486129
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*06/03/2020 03:49*	WG1486129

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		1.62	4.03	1	06/03/2020 21:35	WG1486068
C28-C40 Oil Range	0.975	J	0.276	4.03	1	06/03/2020 21:35	WG1486068
(S) o-Terphenyl	*75.1*			*18.0-148*		*06/03/2020 21:35*	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.8		1	06/04/2020 18:01	WG1486420

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	1630		48.0	104	5	06/03/2020 03:48	WG1486010

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	0.0646	B J	0.0226	0.104	1	06/03/2020 11:25	WG1486242
(S) a,a,a-Trifluorotoluene(FID)	*99.5*			*77.0-120*		*06/03/2020 11:25*	WG1486242

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	06/03/2020 04:09	WG1486129
Toluene	U		0.00136	0.00522	1	06/03/2020 04:09	WG1486129
Ethylbenzene	U		0.000769	0.00261	1	06/03/2020 04:09	WG1486129
Total Xylenes	U		0.000918	0.00678	1	06/03/2020 04:09	WG1486129
(S) Toluene-d8	*171*	J1		*75.0-131*		*06/03/2020 04:09*	WG1486129
(S) 4-Bromofluorobenzene	*88.2*			*67.0-138*		*06/03/2020 04:09*	WG1486129
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*06/03/2020 04:09*	WG1486129

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.68	4.17	1	06/03/2020 21:49	WG1486068
C28-C40 Oil Range	0.623	J	0.286	4.17	1	06/03/2020 21:49	WG1486068
(S) o-Terphenyl	*70.0*			*18.0-148*		*06/03/2020 21:49*	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.6		1	06/04/2020 18:01	WG1486420

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	2600		109	236	10	06/03/2020 04:05	WG1486010

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		0.0257	0.118	1	06/03/2020 16:06	WG1486589
(S) a,a,a-Trifluorotoluene(FID)	*102*			*77.0-120*		*06/03/2020 16:06*	WG1486589

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		0.000552	0.00118	1	06/03/2020 04:30	WG1486129
Toluene	U		0.00154	0.00591	1	06/03/2020 04:30	WG1486129
Ethylbenzene	U		0.000871	0.00296	1	06/03/2020 04:30	WG1486129
Total Xylenes	U		0.00104	0.00769	1	06/03/2020 04:30	WG1486129
(S) Toluene-d8	*115*			*75.0-131*		*06/03/2020 04:30*	WG1486129
(S) 4-Bromofluorobenzene	*95.4*			*67.0-138*		*06/03/2020 04:30*	WG1486129
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*06/03/2020 04:30*	WG1486129

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		1.90	4.73	1	06/03/2020 22:02	WG1486068
C28-C40 Oil Range	U		0.324	4.73	1	06/03/2020 22:02	WG1486068
(S) o-Terphenyl	*68.4*			*18.0-148*		*06/03/2020 22:02*	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.9		1	06/04/2020 18:01	WG1486420

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	1670		47.4	103	5	06/03/2020 05:47	WG1486010

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	0.0537	B J	0.0224	0.103	1	06/03/2020 12:10	WG1486242
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*77.0-120*		*06/03/2020 12:10*	WG1486242

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		0.000482	0.00103	1	06/03/2020 04:50	WG1486129
Toluene	U		0.00134	0.00516	1	06/03/2020 04:50	WG1486129
Ethylbenzene	U		0.000760	0.00258	1	06/03/2020 04:50	WG1486129
Total Xylenes	U		0.000908	0.00670	1	06/03/2020 04:50	WG1486129
(S) Toluene-d8	*123*			*75.0-131*		*06/03/2020 04:50*	WG1486129
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*06/03/2020 04:50*	WG1486129
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*06/03/2020 04:50*	WG1486129

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	06/03/2020 22:15	WG1486068
C28-C40 Oil Range	0.781	J	0.283	4.13	1	06/03/2020 22:15	WG1486068
(S) o-Terphenyl	*70.4*			*18.0-148*		*06/03/2020 22:15*	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.1		1	06/04/2020 18:01	WG1486420

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	2420		97.8	213	10	06/03/2020 06:03	WG1486010

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	0.0697	B J	0.0231	0.106	1	06/03/2020 12:32	WG1486242
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*77.0-120*		*06/03/2020 12:32*	WG1486242

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000497	0.00106	1	06/03/2020 05:10	WG1486129
Toluene	U		0.00138	0.00532	1	06/03/2020 05:10	WG1486129
Ethylbenzene	U		0.000784	0.00266	1	06/03/2020 05:10	WG1486129
Total Xylenes	U		0.000936	0.00691	1	06/03/2020 05:10	WG1486129
(S) Toluene-d8	*115*			*75.0-131*		*06/03/2020 05:10*	WG1486129
(S) 4-Bromofluorobenzene	*98.4*			*67.0-138*		*06/03/2020 05:10*	WG1486129
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*06/03/2020 05:10*	WG1486129

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	1.71	4.25	1	06/03/2020 22:28	WG1486068
C28-C40 Oil Range	2.35	J	0.291	4.25	1	06/03/2020 22:28	WG1486068
(S) o-Terphenyl	*68.4*			*18.0-148*		*06/03/2020 22:28*	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.8		1	06/04/2020 18:01	WG1486420

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	400		9.60	20.9	1	06/03/2020 06:20	WG1486010

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	0.0552	B J	0.0227	0.104	1	06/03/2020 12:54	WG1486242
(S) a,a,a-Trifluorotoluene(FID)	*98.8*			*77.0-120*		*06/03/2020 12:54*	WG1486242

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	06/03/2020 05:31	WG1486129
Toluene	U		0.00136	0.00522	1	06/03/2020 05:31	WG1486129
Ethylbenzene	U		0.000769	0.00261	1	06/03/2020 05:31	WG1486129
Total Xylenes	U		0.000919	0.00679	1	06/03/2020 05:31	WG1486129
(S) Toluene-d8	*138*	J1		*75.0-131*		*06/03/2020 05:31*	WG1486129
(S) 4-Bromofluorobenzene	*87.4*			*67.0-138*		*06/03/2020 05:31*	WG1486129
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*06/03/2020 05:31*	WG1486129

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	2.85	J	1.68	4.18	1	06/03/2020 22:41	WG1486068
C28-C40 Oil Range	5.37		0.286	4.18	1	06/03/2020 22:41	WG1486068
(S) o-Terphenyl	*68.9*			*18.0-148*		*06/03/2020 22:41*	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.4		1	06/04/2020 18:01	WG1486420

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	93.0		9.75	21.2	1	06/03/2020 06:37	WG1486010

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	06/04/2020 09:57	WG1486611
(S) a,a,a-Trifluorotoluene(FID)	*94.4*			*77.0-120*		*06/04/2020 09:57*	WG1486611

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	06/03/2020 05:51	WG1486129
Toluene	U		0.00138	0.00530	1	06/03/2020 05:51	WG1486129
Ethylbenzene	U		0.000781	0.00265	1	06/03/2020 05:51	WG1486129
Total Xylenes	U		0.000932	0.00689	1	06/03/2020 05:51	WG1486129
(S) Toluene-d8	*113*			*75.0-131*		*06/03/2020 05:51*	WG1486129
(S) 4-Bromofluorobenzene	*99.2*			*67.0-138*		*06/03/2020 05:51*	WG1486129
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*06/03/2020 05:51*	WG1486129

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	9.77		1.71	4.24	1	06/08/2020 02:30	WG1486508
C28-C40 Oil Range	19.3		0.290	4.24	1	06/08/2020 02:30	WG1486508
(S) o-Terphenyl	*118*			*18.0-148*		*06/08/2020 02:30*	WG1486508

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.9		1	06/04/2020 18:01	WG1486420

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	20.6	1	06/03/2020 06:54	WG1486010

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	06/04/2020 10:21	WG1486611
(S) a,a,a-Trifluorotoluene(FID)	*99.0*			*77.0-120*		*06/04/2020 10:21*	WG1486611

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		0.000482	0.00103	1	06/03/2020 06:11	WG1486129
Toluene	U		0.00134	0.00516	1	06/03/2020 06:11	WG1486129
Ethylbenzene	U		0.000761	0.00258	1	06/03/2020 06:11	WG1486129
Total Xylenes	U		0.000908	0.00671	1	06/03/2020 06:11	WG1486129
(S) Toluene-d8	*122*			*75.0-131*		*06/03/2020 06:11*	WG1486129
(S) 4-Bromofluorobenzene	*123*			*67.0-138*		*06/03/2020 06:11*	WG1486129
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*06/03/2020 06:11*	WG1486129

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	4.86		1.66	4.13	1	06/08/2020 22:24	WG1486508
C28-C40 Oil Range	10.4		0.283	4.13	1	06/08/2020 22:24	WG1486508
(S) o-Terphenyl	*122*			*18.0-148*		*06/08/2020 22:24*	WG1486508

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.1		1	06/04/2020 17:36	WG1486421

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	65.5		9.57	20.8	1	06/03/2020 07:11	WG1486010

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		0.0226	0.104	1	06/04/2020 10:45	WG1486611
(S) a,a,a-Trifluorotoluene(FID)	*95.4*			*77.0-120*		*06/04/2020 10:45*	WG1486611

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		0.000486	0.00104	1	06/03/2020 06:32	WG1486129
Toluene	U		0.00135	0.00520	1	06/03/2020 06:32	WG1486129
Ethylbenzene	U		0.000767	0.00260	1	06/03/2020 06:32	WG1486129
Total Xylenes	U		0.000916	0.00676	1	06/03/2020 06:32	WG1486129
(S) Toluene-d8	*117*			*75.0-131*		*06/03/2020 06:32*	WG1486129
(S) 4-Bromofluorobenzene	*69.8*			*67.0-138*		*06/03/2020 06:32*	WG1486129
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*06/03/2020 06:32*	WG1486129

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	2.47	J	1.68	4.16	1	06/08/2020 00:31	WG1486508
C28-C40 Oil Range	2.47	J	0.285	4.16	1	06/08/2020 00:31	WG1486508
(S) o-Terphenyl	*121*			*18.0-148*		*06/08/2020 00:31*	WG1486508

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.6		1	06/04/2020 17:36	WG1486421

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	27.8		9.33	20.3	1	06/03/2020 07:28	WG1486010

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	0.0913	J	0.0220	0.101	1	06/04/2020 11:09	WG1486611
(S) a,a,a-Trifluorotoluene(FID)	*96.7*			*77.0-120*		*06/04/2020 11:09*	WG1486611

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		0.000474	0.00101	1	06/03/2020 06:52	WG1486129
Toluene	U		0.00132	0.00507	1	06/03/2020 06:52	WG1486129
Ethylbenzene	U		0.000747	0.00254	1	06/03/2020 06:52	WG1486129
Total Xylenes	U		0.000892	0.00659	1	06/03/2020 06:52	WG1486129
(S) Toluene-d8	*115*			*75.0-131*		*06/03/2020 06:52*	WG1486129
(S) 4-Bromofluorobenzene	*61.5*	J2		*67.0-138*		*06/03/2020 06:52*	WG1486129
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*06/03/2020 06:52*	WG1486129

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	12.6		1.63	4.06	1	06/08/2020 02:56	WG1486508
C28-C40 Oil Range	25.1		0.278	4.06	1	06/08/2020 02:56	WG1486508
(S) o-Terphenyl	*139*			*18.0-148*		*06/08/2020 02:56*	WG1486508

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.3		1	06/04/2020 17:36	WG1486421

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	19.8	J	9.45	20.5	1	06/03/2020 07:45	WG1486010

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0223	0.103	1	06/04/2020 11:33	WG1486611
(S) a,a,a-Trifluorotoluene(FID)	*97.8*			*77.0-120*		*06/04/2020 11:33*	WG1486611

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		0.000480	0.00103	1	06/03/2020 09:37	WG1486258
Toluene	U		0.00134	0.00514	1	06/03/2020 09:37	WG1486258
Ethylbenzene	U		0.000757	0.00257	1	06/03/2020 09:37	WG1486258
Total Xylenes	U		0.000904	0.00668	1	06/03/2020 09:37	WG1486258
(S) Toluene-d8	*104*			*75.0-131*		*06/03/2020 09:37*	WG1486258
(S) 4-Bromofluorobenzene	*89.1*			*67.0-138*		*06/03/2020 09:37*	WG1486258
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*06/03/2020 09:37*	WG1486258

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	7.70		1.65	4.11	1	06/08/2020 02:43	WG1486508
C28-C40 Oil Range	21.1		0.281	4.11	1	06/08/2020 02:43	WG1486508
(S) o-Terphenyl	*130*			*18.0-148*		*06/08/2020 02:43*	WG1486508

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.3		1	06/04/2020 17:36	WG1486421

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	273		9.46	20.6	1	06/03/2020 08:36	WG1486010

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0223	0.103	1	06/04/2020 11:57	WG1486611
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*		*06/04/2020 11:57*	WG1486611

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		0.000480	0.00103	1	06/03/2020 09:56	WG1486258
Toluene	U		0.00134	0.00514	1	06/03/2020 09:56	WG1486258
Ethylbenzene	U		0.000758	0.00257	1	06/03/2020 09:56	WG1486258
Total Xylenes	U		0.000905	0.00668	1	06/03/2020 09:56	WG1486258
(S) Toluene-d8	*104*			*75.0-131*		*06/03/2020 09:56*	WG1486258
(S) 4-Bromofluorobenzene	*87.5*			*67.0-138*		*06/03/2020 09:56*	WG1486258
(S) 1,2-Dichloroethane-d4	*99.9*			*70.0-130*		*06/03/2020 09:56*	WG1486258

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	2.07	J	1.66	4.11	1	06/08/2020 00:44	WG1486508
C28-C40 Oil Range	2.52	J	0.282	4.11	1	06/08/2020 00:44	WG1486508
(S) o-Terphenyl	*98.1*			*18.0-148*		*06/08/2020 00:44*	WG1486508

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.3		1	06/04/2020 17:36	WG1486421

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	20.2	J	9.56	20.8	1	06/03/2020 08:53	WG1486010

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	0.0262	J	0.0225	0.104	1	06/04/2020 01:24	WG1486617
(S) a,a,a-Trifluorotoluene(FID)	*98.8*			*77.0-120*		*06/04/2020 01:24*	WG1486617

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	06/03/2020 10:15	WG1486258
Toluene	U		0.00135	0.00519	1	06/03/2020 10:15	WG1486258
Ethylbenzene	U		0.000766	0.00260	1	06/03/2020 10:15	WG1486258
Total Xylenes	U		0.000914	0.00675	1	06/03/2020 10:15	WG1486258
(S) Toluene-d8	*104*			*75.0-131*		*06/03/2020 10:15*	WG1486258
(S) 4-Bromofluorobenzene	*88.2*			*67.0-138*		*06/03/2020 10:15*	WG1486258
(S) 1,2-Dichloroethane-d4	*98.9*			*70.0-130*		*06/03/2020 10:15*	WG1486258

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	605		16.7	41.6	10	06/08/2020 03:36	WG1486508
C28-C40 Oil Range	977		2.85	41.6	10	06/08/2020 03:36	WG1486508
(S) o-Terphenyl	*198*	J1		*18.0-148*		*06/08/2020 03:36*	WG1486508

Sample Narrative:

L1223523-23 WG1486508: Surrogate failure due to matrix interference

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.8		1	06/04/2020 17:36	WG1486421

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	06/03/2020 09:10	WG1486010

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	06/04/2020 01:44	WG1486617
(S) a,a,a-Trifluorotoluene(FID)	*104*			*77.0-120*		*06/04/2020 01:44*	WG1486617

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		0.000482	0.00103	1	06/03/2020 10:13	WG1486294
Toluene	U		0.00134	0.00516	1	06/03/2020 10:13	WG1486294
Ethylbenzene	U		0.000761	0.00258	1	06/03/2020 10:13	WG1486294
Total Xylenes	U		0.000909	0.00671	1	06/03/2020 10:13	WG1486294
(S) Toluene-d8	*99.6*			*75.0-131*		*06/03/2020 10:13*	WG1486294
(S) 4-Bromofluorobenzene	*94.9*			*67.0-138*		*06/03/2020 10:13*	WG1486294
(S) 1,2-Dichloroethane-d4	*94.1*			*70.0-130*		*06/03/2020 10:13*	WG1486294

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	22.6		1.66	4.13	1	06/08/2020 03:10	WG1486508
C28-C40 Oil Range	38.6		0.283	4.13	1	06/08/2020 03:10	WG1486508
(S) o-Terphenyl	*130*			*18.0-148*		*06/08/2020 03:10*	WG1486508

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.3		1	06/04/2020 17:36	WG1486421

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		9.55	20.8	1	06/03/2020 09:26	WG1486010

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	06/04/2020 02:05	WG1486617
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*06/04/2020 02:05*	WG1486617

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	06/03/2020 10:33	WG1486294
Toluene	U		0.00135	0.00519	1	06/03/2020 10:33	WG1486294
Ethylbenzene	U		0.000765	0.00260	1	06/03/2020 10:33	WG1486294
Total Xylenes	U		0.000914	0.00675	1	06/03/2020 10:33	WG1486294
(S) Toluene-d8	*98.4*			*75.0-131*		*06/03/2020 10:33*	WG1486294
(S) 4-Bromofluorobenzene	*95.2*			*67.0-138*		*06/03/2020 10:33*	WG1486294
(S) 1,2-Dichloroethane-d4	*92.9*			*70.0-130*		*06/03/2020 10:33*	WG1486294

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	3.09	J	1.67	4.15	1	06/08/2020 00:57	WG1486508
C10-C28 Diesel Range	U	Q	1.67	4.15	1	06/09/2020 13:28	WG1488541
C28-C40 Oil Range	5.18		0.284	4.15	1	06/08/2020 00:57	WG1486508
C28-C40 Oil Range	1.13	J Q	0.284	4.15	1	06/09/2020 13:28	WG1488541
(S) o-Terphenyl	*115*			*18.0-148*		*06/08/2020 00:57*	WG1486508
(S) o-Terphenyl	*63.5*			*18.0-148*		*06/09/2020 13:28*	WG1488541

Sample Narrative:

L1223523-25 WG1486508, WG1488541: Duplicate Analysis performed due to contamination. Results don't confirm; both analyses reported

Method Blank (MB)

(MB) R3535378-1 06/04/20 14:19

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

L1223485-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1223485-24 06/04/20 14:19 • (DUP) R3535378-3 06/04/20 14:19

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	85.9	85.4	1	0.523		10

Laboratory Control Sample (LCS)

(LCS) R3535378-2 06/04/20 14:19

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) R3535553-1 06/04/20 18:21

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

Original Sample (OS) • Duplicate (DUP)

(OS) • (DUP) R3535553-3 06/04/20 18:21

Analyte	Original Result	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids		93.6	1	0.111		10

Laboratory Control Sample (LCS)

(LCS) R3535553-2 06/04/20 18:21

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) R3535512-1 06/04/20 18:01

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

L1223523-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1223523-10 06/04/20 18:01 • (DUP) R3535512-3 06/04/20 18:01

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	97.7	97.9	1	0.148		10

Laboratory Control Sample (LCS)

(LCS) R3535512-2 06/04/20 18:01

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) R3535509-1 06/04/20 17:36

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

L1223523-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1223523-20 06/04/20 17:36 • (DUP) R3535509-3 06/04/20 17:36

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	98.6	98.7	1	0.118		10

Laboratory Control Sample (LCS)

(LCS) R3535509-2 06/04/20 17:36

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	49.7	99.4	85.0-115	

Method Blank (MB)

(MB) R3534872-1 06/03/20 14:32

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

L1223384-22 Original Sample (OS) • Duplicate (DUP)

(OS) L1223384-22 06/03/20 15:30 • (DUP) R3534872-3 06/03/20 15:39

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	83.5	86.3	1	3.27		20

L1223523-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1223523-06 06/03/20 18:59 • (DUP) R3534872-6 06/03/20 19:09

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	124	119	1	3.69		20

Laboratory Control Sample (LCS)

(LCS) R3534872-2 06/03/20 14:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	187	93.7	90.0-110	

L1223384-25 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1223384-25 06/03/20 16:08 • (MS) R3534872-4 06/03/20 16:37 • (MSD) R3534872-5 06/03/20 16:46

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 %
Chloride	544	27.1	548	559	95.6	97.8	1	80.0-120			2.13	20

Method Blank (MB)

(MB) R3534486-1 06/03/20 01:30

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

L1223523-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1223523-08 06/03/20 02:24 • (DUP) R3534486-3 06/03/20 02:40

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1320	1350	5	2.47		20

L1223768-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1223768-02 06/03/20 10:00 • (DUP) R3534486-6 06/03/20 10:17

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	57.3	54.7	1	4.48		20

Laboratory Control Sample (LCS)

(LCS) R3534486-2 06/03/20 01:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	205	103	90.0-110	

L1223523-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1223523-14 06/03/20 04:22 • (MS) R3534486-4 06/03/20 05:13 • (MSD) R3534486-5 06/03/20 05:30

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	1850	2410	2300	110	88.1	1	80.0-120	E	E	4.81	20

Method Blank (MB)

(MB) R3534484-2 06/02/20 23:24

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)	*95.9*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3534484-1 06/02/20 22:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.81	106	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*105*	*77.0-120*	

Method Blank (MB)

(MB) R3534476-2 06/03/20 08:03

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0483	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3534476-1 06/03/20 07:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.59	102	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*107*	*77.0-120*	

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) • (MS) R3534476-3 06/03/20 17:31 • (MSD) R3534476-4 06/03/20 17:53

Analyte	Spike Amount mg/kg	Original Result	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	129		80.6	82.7	76.0	78.0	25	10.0-151			2.57	28
(S) a,a,a-Trifluorotoluene(FID)					*105*	*105*		*77.0-120*				

Method Blank (MB)

(MB) R3534732-2 06/03/20 15:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*97.8*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3534732-1 06/03/20 14:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.42	98.5	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*107*	*77.0-120*	

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) • (MS) R3534732-3 06/04/20 00:00 • (MSD) R3534732-4 06/04/20 00:24

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 %
TPH (GC/FID) Low Fraction	2.58		1.78	1.84	82.8	85.6	1	10.0-151			3.31	28
(S) a,a,a-Trifluorotoluene(FID)					*107*	*107*		*77.0-120*				

Method Blank (MB)

(MB) R3534704-3 06/03/20 12:24

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*104*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3534704-2 06/03/20 11:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.84	106	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*101*	*77.0-120*	

Method Blank (MB)

(MB) R3534893-2 06/04/20 02:24

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)	*99.1*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3534893-1 06/04/20 01:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.24	77.1	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*107*	*77.0-120*	

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) • (MS) R3534893-3 06/04/20 12:21 • (MSD) R3534893-4 06/04/20 12:45

Analyte	Spike Amount mg/kg	Original Result	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	129		92.9	64.5	96.5	67.0	25	10.0-151		J3	36.1	28
(S) a,a,a-Trifluorotoluene(FID)					*108*	*109*		*77.0-120*				

Method Blank (MB)

(MB) R3534993-2 06/04/20 00:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*108*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3534993-1 06/04/20 00:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.81	106	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*99.9*	*77.0-120*	

Method Blank (MB)

(MB) R3534611-2 06/03/20 00:05

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	*119*			*75.0-131*
(S) 4-Bromofluorobenzene	*81.1*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3534611-1 06/02/20 22:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.105	84.0	70.0-123	
Ethylbenzene	0.125	0.111	88.8	74.0-126	
Toluene	0.125	0.107	85.6	75.0-121	
Xylenes, Total	0.375	0.321	85.6	72.0-127	
(S) Toluene-d8			*109*	*75.0-131*	
(S) 4-Bromofluorobenzene			*98.3*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*117*	*70.0-130*	

L1223523-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1223523-20 06/03/20 06:52 • (MS) R3534611-3 06/03/20 07:12 • (MSD) R3534611-4 06/03/20 07:49

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	0.127	U	0.111	0.161	87.2	127	1	10.0-149		J3	37.3	37
Ethylbenzene	0.127	U	0.123	0.120	96.8	94.4	1	10.0-160			2.51	38
Toluene	0.127	U	0.166	0.0960	131	75.8	1	10.0-156		J3	53.6	38
Xylenes, Total	0.380	U	0.302	0.349	79.5	91.7	1	10.0-160			14.3	38
(S) Toluene-d8					*161*	*91.8*		*75.0-131*	J1			
(S) 4-Bromofluorobenzene					*85.1*	*101*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*113*	*161*		*70.0-130*		J1		

Method Blank (MB)

(MB) R3534502-2 06/03/20 08:47

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	*106*			*75.0-131*
(S) 4-Bromofluorobenzene	*84.7*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*96.2*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3534502-1 06/03/20 07:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.109	87.2	70.0-123	
Ethylbenzene	0.125	0.101	80.8	74.0-126	
Toluene	0.125	0.102	81.6	75.0-121	
Xylenes, Total	0.375	0.283	75.5	72.0-127	
(S) Toluene-d8			*98.6*	*75.0-131*	
(S) 4-Bromofluorobenzene			*93.7*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*109*	*70.0-130*	

Method Blank (MB)

(MB) R3534949-1 06/03/20 08:40

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	*94.7*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*92.0*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3534949-2 06/03/20 08:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.113	90.4	70.0-123	
Ethylbenzene	0.125	0.122	97.6	74.0-126	
Toluene	0.125	0.106	84.8	75.0-121	
Xylenes, Total	0.375	0.354	94.4	72.0-127	
(S) Toluene-d8			*94.3*	*75.0-131*	
(S) 4-Bromofluorobenzene			*96.8*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*102*	*70.0-130*	

L1223420-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1223420-05 06/03/20 15:55 • (MS) R3534949-3 06/03/20 16:34 • (MSD) R3534949-4 06/03/20 16:53

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	0.132	U	0.0933	0.111	70.9	84.0	1	10.0-149			16.9	37
Ethylbenzene	0.132	U	0.0995	0.123	75.6	93.6	1	10.0-160			21.3	38
Toluene	0.132	U	0.0957	0.112	72.7	84.8	1	10.0-156			15.3	38
Xylenes, Total	0.395	U	0.262	0.315	66.4	79.7	1	10.0-160			18.2	38
(S) Toluene-d8					*97.8*	*98.1*		*75.0-131*				
(S) 4-Bromofluorobenzene					*92.4*	*92.3*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*81.6*	*76.7*		*70.0-130*				

Method Blank (MB)

(MB) R3534692-2 06/03/20 09:01

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	*107*			*75.0-131*
(S) 4-Bromofluorobenzene	*73.0*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*80.3*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3534692-1 06/03/20 07:45

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.111	88.8	70.0-123	
Ethylbenzene	0.125	0.111	88.8	74.0-126	
Toluene	0.125	0.105	84.0	75.0-121	
Xylenes, Total	0.375	0.286	76.3	72.0-127	
(S) Toluene-d8			*93.1*	*75.0-131*	
(S) 4-Bromofluorobenzene			*108*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*94.0*	*70.0-130*	

Method Blank (MB)

(MB) R3534745-1 06/03/20 16:17

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	*65.9*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3534745-2 06/03/20 16:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	39.6	79.2	50.0-150	
(S) o-Terphenyl			*90.8*	*18.0-148*	

L1223523-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1223523-01 06/03/20 23:47 • (MS) R3534745-3 06/04/20 00:00 • (MSD) R3534745-4 06/04/20 00:13

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	53.4	25.4	70.9	65.8	85.2	75.6	1	50.0-150			7.50	20
(S) o-Terphenyl					*67.6*	*77.2*		*18.0-148*				

Method Blank (MB)

(MB) R3535684-1 06/05/20 13:06

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	*94.4*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3535684-2 06/05/20 13:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	42.6	85.2	50.0-150	
(S) o-Terphenyl			*76.9*	*18.0-148*	

L1223523-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1223523-18 06/08/20 22:24 • (MS) R3536391-1 06/08/20 22:37 • (MSD) R3536391-2 06/08/20 22:51

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	51.3	4.86	58.7	60.3	105	109	1	50.0-150			2.60	20
(S) o-Terphenyl					*112*	*105*		*18.0-148*				

Method Blank (MB)

(MB) R3536639-1 06/09/20 11:39

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	*65.5*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3536639-2 06/09/20 11:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	36.8	73.6	50.0-150	
(S) o-Terphenyl			*61.1*	*18.0-148*	

L1224474-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1224474-07 06/09/20 19:00 • (MS) R3536639-3 06/09/20 19:14 • (MSD) R3536639-4 06/09/20 19:27

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	55.7	U	35.1	39.8	63.0	71.0	1	50.0-150			12.6	20
(S) o-Terphenyl					*46.1*	*58.7*		*18.0-148*				

Guide to Reading and Understanding Your Laboratory Report

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

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.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
Q	Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.

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

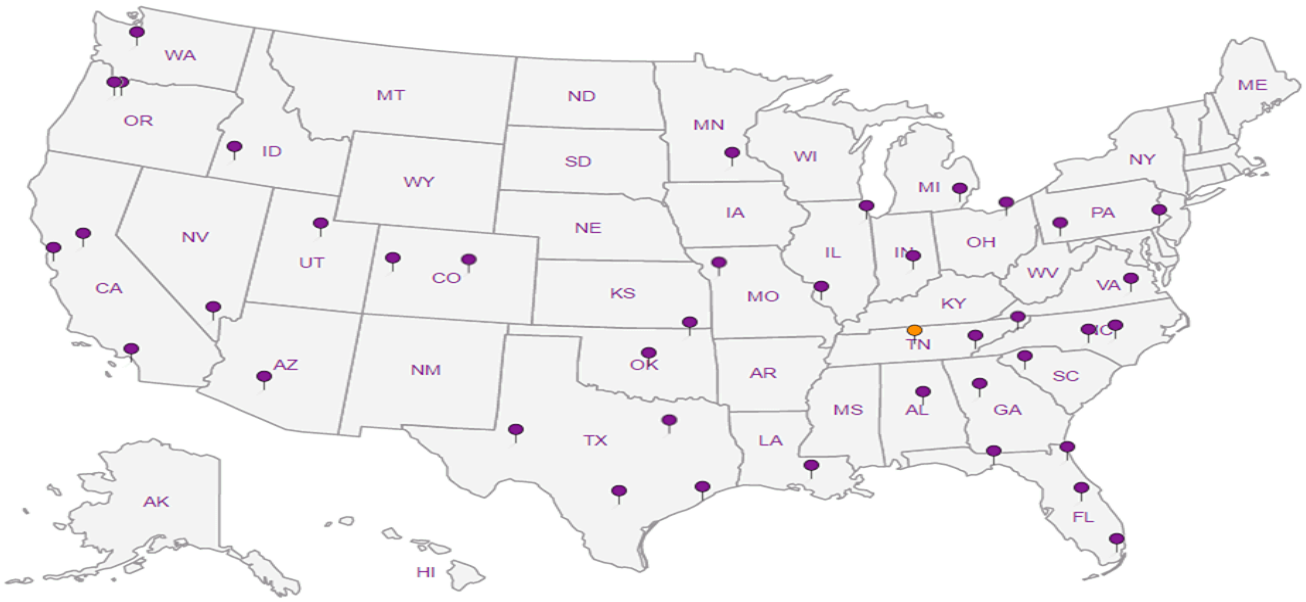
Third Party Federal Accreditations

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

L1223523

Page : 1 of 3

Tetra Tech, Inc.

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

1084

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	EVGSAU 3366-029	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: **(county, state)**	Lea County, New Mexico	**Project #:**	212C-MD-01576
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Joe Tyler
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2020)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
	BH-20-1 (0'-1')	05/20/20	1400		X			X		1	N	X		X												X						-01
	BH-20-1 (2'-3')	05/20/20	1405		X			X		1	N	X		X												X						-02
	BH-20-1 (4'-5')	05/20/20	1410		X			X		1	N	X		X												X						-03
	BH-20-1 (6'-7')	05/20/20	1415		X			X		1	N	X		X												X						-04
	BH-20-1 (9'-10')	05/20/20	1420		X			X		1	N	X		X												X						-05
	BH-20-1 (14'-15')	05/20/20	1430		X			X		1	N	X		X												X						-06
	BH-20-2 (0'-1')	05/20/20	1450		X			X		1	N	X		X												X						-07
	BH-20-2 (2'-3')	05/20/20	1500		X			X		1	N	X		X												X						-08
	BH-20-2 (4'-5')	05/20/20	1505		X			X		1	N	X		X												X						-09
	BH-20-2 (6'-7')	05/20/20	1510		X			X		1	N	X		X												X						-10

Relinquished by:	Date: 5/28/20	Time: 12:30	Received by: Date: 5/28/20 Time: 12:30
Relinquished by:	Date: 5/28/20	Time: 16:00	Received by: FedEx Date: 5/28/20 Time: 16:00
Relinquished by:	Date:	Time:	Received by: Date: 5/29/20 Time: 0900

ORIGINAL COPY

1770 3030 2905

LAB USE ONLY

Sample Temperature: 1.0

REMARKS:

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

Analysis Request of Chain of Custody Record

L1277523

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:	EVGSAU 3366-029	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-01576
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Joe Tyler
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2020)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
	BH-20-2 (9'-10')	05/20/20	1520		X			X		1	N	X		X												X						11
	BH-20-2 (14'-15')	05/20/20	1530		X			X		1	N	X		X												X						12
	BH-20-2 (19'-20')	05/20/20	1540		X			X		1	N	X		X												X						13
	BH-20-2 (24'-25')	05/20/20	1550		X			X		1	N	X		X												X						14
	BH-20-2 (29'-30')	05/20/20	1610		X			X		1	N	X		X												X						15
	BH-20-2 (39'-40')	05/20/20	1630		X			X		1	N	X		X												X						16
	BH-20-3 (0'-1')	05/21/20	1000		X			X		1	N	X		X												X						17
	BH-20-3 (2'-3')	05/21/20	1005		X			X		1	N	X		X												X						18
	BH-20-3 (4'-5')	05/21/20	1010		X			X		1	N	X		X												X						19
	BH-20-4 (0'-1')	05/21/20	1040		X			X		1	N	X		X												X						20

	Relinquished by:	Date:	Time:	Received by:	Date:	Time:
1	Bill D. Arnold	5-28-20	12:30		5-28-20	12:30
2		5-28-20	16:00	FedEx	5-28-20	16:00
3					5/29/20	0900

ORIGINAL COPY

179030329 05

LAB USE ONLY
Sample Temperature
1.0

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

Analysis Request of Chain of Custody Record

L1223523

Page : 3 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:	EVGSAU 3366-029	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-01576
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Joe Tyler
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
	BH-20-4 (2'-3')	05/21/20	1045		X				X			1	N	X		X												X						-21
	BH-20-4 (4'-5')	05/21/20	1050		X				X			1	N	X		X												X						-22
	BH-20-5 (0'-1')	05/21/20	1130		X				X			1	N	X		X												X						-23
	BH-20-5 (2'-3')	05/21/20	1135		X				X			1	N	X		X												X						-24
	BH-20-5 (4'-5')	05/21/20	1140		X				X			1	N	X		X												X						-25
																																		-26

Relinquished by: Date: Time:
Bill D. Lamb 5-28-20 12:30

Received by: Date: Time:
5-28-20 12:30

Relinquished by: Date: Time:
5-28-20 16:00

Received by: Date: Time:
FedEx 5-28-20 16:00

Relinquished by: Date: Time:

Received by: Date: Time:
5/29/20 0900

ORIGINAL COPY

179030290 5

LAB USE ONLY

Sample Temperature
1.0

REMARKS:

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client: COPTETRA	L1223523	
Cooler Received/Opened On: 5/29/20 Temperature:	1.0	
Received By: Paul Minnich		
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?			

APPENDIX E
Photographic Documentation

TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing northeast of flowline release area. Note soil pile on left.	1
	SITE NAME	EVGSAU 3366-029 Flowline Release	7/30/2020

TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing northeast of flowline release area. Note well pad in the background.	2
	SITE NAME	EVGSAU 3366-029 Flowline Release	7/30/2020

TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing northwest of flowline release area.	3
	SITE NAME	EVGSAU 3366-029 Flowline Release	7/30/2020

TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing east of flowline release area. Note pole-mounted transformers in the background.	4
	SITE NAME	EVGSAU 3366-029 Flowline Release	7/30/2020

TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing northwest of flowline release area.	5
	SITE NAME	EVGSAU 3366-029 Flowline Release	7/30/2020

TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing northeast of flowline release area.	6
	SITE NAME	EVGSAU 3366-029 Flowline Release	7/30/2020

APPENDIX F
NMSLO Seed Mixture Details

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Lea County, New Mexico

September 24, 2020

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Contents

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map (1RP-739: EVGSAU 3366-029 Flowline)

Map Scale: 1:618 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 5 10 20 30

Feet: 0 30 60 120 180

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 17, Jun 8, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend (1RP-739: EVGSAU 3366-029 Flowline)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	0.5	100.0%
Totals for Area of Interest		**0.5**	**100.0%**

Map Unit Descriptions (1RP-739: EVGSAU 3366-029 Flowline)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The

delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Lea County, New Mexico

KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw46
Elevation: 2,500 to 4,800 feet
Mean annual precipitation: 14 to 16 inches
Mean annual air temperature: 57 to 63 degrees F
Frost-free period: 180 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough and similar soils: 45 percent
Lea and similar soils: 25 percent
Minor components: 30 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kimbrough

Setting

Landform: Plains, playa rims
Down-slope shape: Linear, convex
Across-slope shape: Linear, concave
Parent material: Loamy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 3 inches: gravelly loam
Bw - 3 to 10 inches: loam
Bkkm1 - 10 to 16 inches: cemented material
Bkkm2 - 16 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 4 to 18 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.01 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 95 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water capacity: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R077DY049TX - Very Shallow 12-17" PZ
Hydric soil rating: No

Description of Lea

Setting

Landform: Plains
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age

Typical profile

A - 0 to 10 inches: loam
Bk - 10 to 18 inches: loam
Bkk - 18 to 26 inches: gravelly fine sandy loam
Bkkm - 26 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 22 to 30 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 90 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 3.0
Available water capacity: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R077DY047TX - Sandy Loam 12-17" PZ
Hydric soil rating: No

Minor Components

Douro

Percent of map unit: 12 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077DY047TX - Sandy Loam 12-17" PZ
Other vegetative classification: Unnamed (G077DH000TX)
Hydric soil rating: No

Kenhill

Percent of map unit: 12 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077DY038TX - Clay Loam 12-17" PZ
Hydric soil rating: No

Spraberry

Percent of map unit: 6 percent
Landform: Plains, playa rims
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: R077DY049TX - Very Shallow 12-17" PZ
Other vegetative classification: Unnamed (G077DH000TX)
Hydric soil rating: No

References

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

National Research Council. 1995. Wetlands: Characteristics and boundaries.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_054262

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053577

Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053580

Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.

United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.

United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2_053374

United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf

NMSLO Seed Mix Sandy Loam (SL)

SANDY LOAM (SL) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Galleta grass	Viva, VNS, So.	2.5	F
Little bluestem	Cimmaron, Pastura	2.5	F
Blue grama	Hachita, Lovington	2.0	D
Sideoats grama	Vaughn, El Reno	2.0	F
Sand dropseed	VNS, Southern	1.0	S
Forbs:			
Indian blanketflower	VNS, Southern	1.0	D
Parry penstemon	VNS, Southern	1.0	D
Blue flax	Appar	1.0	D
Desert globemallow	VNS, Southern	1.0	D
Shrubs:			
Fourwing saltbush	VNS, Southern	2.0	D
Common winterfat	VNS, Southern	1.0	F
Apache plume	VNS, Southern	0.75	F
	Total PLS/acre	17.75	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

- VNS, Southern – No Variety Stated, seed should be from a southern latitude collection of this species.
- Double above seed rates for broadcast or hydroseeding.
- If Parry penstemon is not available, substitute firecracker penstemon.
- If desert globemallow is not available, substitute scarlet globemallow or Nelson globemallow.
- If a species is not available, provide a suggested substitute to the New Mexico Land Office for approval. Increasing all other species proportionately may be acceptable.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 207893

CONDITIONS

Operator: Maverick Permian LLC 1111 Bagby Street Suite 1600 Houston, TX 77002	OGRID: 331199
	Action Number: 207893
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
jharimon	Duplicate OCD INCIDENT, closed based on nPRS0414755359. UPLOAD FROM HISTORIC FILES	4/14/2023