

February 8, 2021

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

Re: Release Characterization and Remediation Work Plan ConocoPhillips Philmex 3 Battery Bleeder Valve Release Unit Letter C, Section 36, Township 17 South, Range 33 East Lea County, New Mexico 1RP-1987 Incident ID nGRL0833634443

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to assess a historical release that occurred at the Philmex 3 Battery. The Philmex 3 Battery shares a lease pad with the Philmex #18 well (API No. 30-025-28829). The release footprint is located in Public Land Survey System (PLSS) Unit Letter C, Section 36, Township 17 South, Range 33 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.796567°, -103.618333°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), the release was discovered on October 19, 2008. According to the C-141, the release occurred due to cattle accidently actuating the handle on a bleeder valve. The release consisted of 13 barrels (bbls) of oil, which affected one 42-foot (ft) by 42-ft by 2-inch-deep area and another 24-ft by 15-ft by 18-inch-deep area of dry caliche pad and lease road. During immediate response actions, a vacuum truck recovered 12 bbls of oil. The New Mexico Oil Conservation District (NMOCD) received the C-141 report form for the release on October 22, 2008 and assigned the release the Remediation Permit (RP) number 1RP-1987 and the Incident ID nGRL0833634443. The 1RP-1987 release is included in an Agreed Compliance Order-Releases (ACO-R) between COP and the NMOCD signed on May 7 and 9, 2019, respectively.

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 19.15.29 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 no water wells within 800 meters (approximately ½ mile) of the Site, but there are three (3) water wells within 1,600 meters (approximately 1 mile) of the Site. The average depth to groundwater is 146 ft below ground surface (bgs). The site characterization data is included in Appendix B.

Release Characterization and Remediation Work Plan February 8, 2021

REGULATORY FRAMEWORK

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

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

Constituent	Remediation RRAL		
Chloride	20,000 mg/kg		
ТРН	2,500 mg/kg		
BTEX	50 mg/kg		

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

Constituent	Reclamation RRAL
Chloride	600 mg/kg
ТРН	100 mg/kg
BTEX	50 mg/kg

SITE ASSESSMENT

The release footprint was identified using GPS coordinates found in the C-141 and through review of available aerial imagery. Historical aerial imagery from 2012 and 2014 indicate disturbed soils in the reported release vicinity. The disturbed areas are larger than the reported release extent. On behalf of COP, Tetra Tech conducted a visual Site inspection in June 2020. During this inspection, a lack of uniform vegetative cover was observed in the release area. Photographic documentation of the visual Site inspection is included as Appendix C.

Tetra Tech returned to the Site on behalf of COP in November and December 2020 to conduct soil sampling to achieve vertical and horizontal delineation of the release. A total of two (2) borings (BH-1 and BH-2) were installed using an air rotary drilling rig to depths of 20 ft bgs inside the release extent to achieve vertical delineation. A total of four (4) hand auger borings (AH-1 through AH-4) were advanced along the perimeter of the release extent to depths of 1 ft bgs. Soils at the Site consist of light brown to tan loose silty sands. Figure 3 depicts the release extent and the 2020 soil boring locations, and GPS coordinates for the boring locations are presented in Table 1.

Soils were field screened for salinity using an ExTech EC400 ExStik and for volatile organics using a photoionization detector (PID) to determine sampling intervals. A total of eighteen (18) samples were collected from the six (6) borings (BH-1 and BH-2 and AH-1 through AH-4) 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 D.

SUMMARY OF SAMPLING RESULTS

Results from the November and December 2020 soil sampling event are summarized in Table 2. The analytical results associated with the interior boring locations BH-1 and BH-2 exceeded the Site reclamation RRAL for TPH (100 mg/kg) in the 0-1 ft bgs sample intervals. Additionally, the analytical results associated with the 2-3 ft bgs sample interval at boring location BH-1 exceeded the Site reclamation RRAL for chloride (600 mg/kg). The analytical results associated with the 0-1 ft bgs interval at boring location AH-1 was elevated above the Site reclamation RRAL for TPH (100 mg/kg) but well below the Site remediation RRAL

Release Characterization and Remediation Work Plan February 8, 2021

for TPH (2,500 mg/kg). As this boring is located in an active lease road necessary for production operations, the Site remediation RRALs apply. There were no other analytical results which exceeded the Site reclamation and remediation RRALs for chlorides, TPH, or BTEX. The release extent was horizontally and vertically delineated.

REMEDIATION WORK PLAN

Based on the analytical results, ConocoPhillips proposes to remove the remaining impacted material as shown in Figure 4. Impacted soils will be excavated using heavy equipment (backhoes, hoe rams, and track hoes) to a maximum depth of 4 ft below the surrounding surface in the area around BH-1 and to a maximum depth of 2 ft below the surrounding surface in the areas around BH-2 and east of BH-1, or until a representative sample from the walls and bottom of the excavation is below the RRALs.

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 1,395 cubic yards.

ALTERNATIVE CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, ConocoPhillips proposes the following alternative confirmation sampling plan to adhere with NMOCD requirements. The proposed confirmation sample locations are depicted in Figure 5. Thirty (30) confirmation floor samples and thirty-nine (39) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 14,200 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 (or the first favorable growing season) to aid in revegetation. Based on the soils at the site, the New Mexico State Land Office (NMSLO) Loamy (L) 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 handheld 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 E.

CONCLUSION

ConocoPhillips proposes to begin remediation activities at the Site within 1 year of NMOCD plan approval. The Philmex 3 Battery Bleeder Valve Release (1RP-1987) is included in an Agreed Compliance Order-Releases (ACO-R) between COP and the NMOCD signed on May 7 and 9, 2019, respectively. COP is dedicated to addressing and closing all historical releases included in the ACO-R, and given the number of releases to be addressed, 1 year is anticipated to be a practicable timeline. 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 Release Characterization and Remediation Work Plan February 8, 2021

ConocoPhillips

proposed remediation activities for the Site, please call me at (512) 739-7874 or Christian at (512) 338-2861.

Sincerely, Tetra Tech, Inc.

Samantha K. Abbott, P.G. Senior Staff Geologist

Christian M, Llull, P.G. Project Manager

CC:

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

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Release Characterization and Remediation Work Plan February 8, 2021

Figures:

Figure 1 – Site Map

Figure 2 – Topographic Map

Figure 3 – Release Extent and Site Assessment

Figure 4 – Proposed Remediation Extent

Figure 5 – Alternative Confirmation Sampling Plan

Tables:

Table 1 – Boring Location Coordinates

Table 2 – Summary of Analytical Results – Soil Assessment

Appendices:

Appendix A – C-141 Forms

Appendix B – Site Characterization Data

Appendix C – Photographic Documentation

Appendix D – Laboratory Analytical Data

Appendix E – NMSLO Seed Mixture Details

ConocoPhillips

FIGURES



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TABLES

TABLE 1 BORING LOCACTION COORDINATES SOIL ASSESSMENT - 1RP-1987 CONOCOPHILLIPS PHILMEX BATTERY #3 BATTERY BLEEDER VALVE RELEASE LEA COUNTY, NM

Boring ID	Latitude	Longitude		
AH-1	32.796408	-103.618013		
AH-2	32.796598	-103.617781		
AH-3	32.797118	-103.617986		
AH-4	32.796581	-103.618462		
BH-1	32.796891	-103.618186		
BH-2	32.796726	-103.618226		

TABLE 2 SUMMARY OF ANALYTICAL RESULTS SOIL ASSESSMENT - 1RP-1987 CONOCOPHILLIPS PHILMEX BATTERY #3 BATTERY BLEEDER VALVE RELEASE LEA COUNTY, NM

			Field Screen	ing Posults				BTEX ²				TPH ³									
Sample ID	Sample Date	Sample Depth Interval	Field Screen	Tield Screening Results		de ¹ Benzene			Toluono		Ethylhonzono	Total Yulonos		GRO⁴		DRO		ORO		Total TPH	
Sample ID	Sample Date		Chloride	PID			Benzene		Toluelle				TOTAL DIEX	C ₃ - C ₁₀		C ₁₀ - C ₂₈		C ₂₈ - C ₄₀		(GRO+DRO+ORO)	
		ft. bgs	рр	m	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
		0-1	-	-	338		< 0.00111		< 0.00556		< 0.00278		< 0.00723	-	< 0.106		34.1		167		201
		2-3	-	-	943		< 0.00110		< 0.00549		< 0.00274		< 0.00714	-	0.0341	ВJ	2.30	J	10.6	В	12.9
		4-5	-	-	613		< 0.00107		< 0.00533		< 0.00266		< 0.00693	-	0.0287	ВJ	< 4.13		0.957	ΒJ	0.986
BH-1	11/16/2020	6-7	-	-	364		< 0.00106		< 0.00531		< 0.00265		< 0.00690	-	0.0268	ВJ	< 4.12		< 4.12		0.0268
		9-10	-	-	131		< 0.00106		< 0.00530		< 0.00265		< 0.00690	-	0.0279	ВJ	< 4.12		< 4.12		0.0279
		14-15	-	-	125		< 0.00106		< 0.00531		< 0.00266		< 0.00691	-	0.0305	ВJ	< 4.13		< 4.13		0.0305
		19-20	97.1	0.1	102		< 0.00110		< 0.00549		< 0.00274		< 0.00713	-	0.0287	ΒJ	< 4.19		0.562	ΒJ	0.5907
	11/16/2020	0-1	-	-	10.1	J	< 0.00105		< 0.00524		< 0.00262		0.00210 J	0.00210	0.0269	ΒJ	38.2		190		228
		2-3	-	-	34.1		< 0.00107		< 0.00535		< 0.00267		< 0.00695	-	0.0228	ВJ	< 4.14		8.20	В	8.22
		4-5	-	-	330		< 0.00108		< 0.00539		< 0.00269		< 0.00700	-	0.0250	ВJ	< 4.15		1.79	ΒJ	1.82
BH-2		6-7	-	-	204		< 0.00104		< 0.00521		< 0.00261		< 0.00677	-	0.0235	ВJ	< 4.08		0.334	ΒJ	0.358
		9-10	-	-	163		< 0.00106		< 0.00528		< 0.00264		< 0.00686	-	0.0265	ВJ	< 4.11		1.44	ΒJ	1.47
		14-15	-	-	168		< 0.00115		< 0.00576		< 0.00288		< 0.00748	-	0.0248	ВJ	< 4.30		< 4.30		0.0248
		19-20	131	0	122		< 0.00112		< 0.00560		< 0.00280		< 0.00729	-	0.0258	ΒJ	< 4.24		< 4.24		0.0258
AH-1	12/2/2020	0-1	-	-	< 20.2		< 0.00102		< 0.00512		< 0.00256		< 0.00666	-	< 0.101		18.4		110		128
AH-2	12/2/2020	0-1	-	-	< 20.3		< 0.00103		< 0.00516		< 0.00258		< 0.00671	-	0.164	В	4.27	В	14.8		19.1
AH-3	12/2/2020	0-1	-	-	66.1		< 0.00105		< 0.00524		< 0.00262		< 0.00681	-	0.143		6.75	В	30.0		36.8
AH-4	12/2/2020	0-1	-	_	10.2	J	< 0.00101		< 0.00507		< 0.00254		< 0.00660	-	< 0.101		17.7		70.50		88.2

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

Shaded rows indicate intervals proposed for excavation.

- 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.

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APPENDIX A C-141 Forms

Received by)(D: [/]		§ 45 AM					Page 16 of 101		
District I 1625 N French District II	Dr., Hobb	G1 T8240 2	2008	Stat Energy Min	te of New Mex erals and Natura	ico l Resources		Form C-141 Revised October 10, 2003		
1301 W Grand <u>District III</u> 1000 Rio Brazo <u>District IV</u>	Avenue, Art	esia, NM 88210		Oil Co 1220 S	onservation Div South St. Franc	vision is Dr.		Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back		
1220 S St Fran	cis Dr , Sant	a Fe, NM 87505) 	Sar	nta Fe, NM 875	05		side of form		
			Rele	ease Notifica	ation and Co	orrective A	ction			
Name of Co	ompany C	ConocoPhilli	ps Comp	any	Contact Jo	hn W. Gates		I Report Final Report		
Address 3.	300 North	A St. Bldg	6, Midla	nd, TX 79705-54	06 Telephone N	No. 505.391.3	158			
Facility Nar	ne Philm	ex 5 Battery		AL # 18			I	E EO 0208 0000		
Surface Ow	ner State	e Of New M	exico		vner State OI No		API	<u>6 EC-0398-0009</u> 年 ての の 75 2882		
Unit Letter	Section	Township	Range	LOCA Feet from the	FION OF RE North/South Line	LEASE Feet from the	East/West Line	County		
C	36	175	R33E					Lea		
L		L		N 32 degrees 47	794 Longit	nde W 103 de				
	•	Li	attitude 1	NATI	URE OF REL	EASE	.grees 57.100	WTR 150		
Type of Rele	ase				Volume of Release	e e ater)	Volume R	(ecovered		
Source of Re	lease				Date and Hour of	Occurrence	Date and	Hour of Discovery		
Bleeder Va Was Immedi	alve ate Notice (Given?			10-19-08 3:00pm 10-19-08 4:30pm If YES, To Whom? If YES, To Whom?					
		Yes 🗌 No	□ Not	Required	Buddy Hill					
By Whom? Was a Water	John Gate course Read	es ched?] Yes 🖂] No	Date and Hour If YES, Volume Impacting the Watercourse.					
If a Watercou Describe Cau The cause of	urse was Im use of Probl of the spil	ipacted, Descr lem and Reme l was due to	ibe Fully. dial Actio cattle ac	* n Taken.* cidently actuati	ng the handle on	a bleeder valv	e. The bleeder va	lve was closed and a steel		
Describe Are 42' X 45' X with NMO	plug installed in the bottom of the valve. Describe Area Affected and Cleanup Action Taken.* 42' X 45' X 2" and a 24' X 15' X 18" area of dry caliche pad and road. Spill site will be delineated and remediated in accordance with NMOCD guidelines I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and									
public health should their of or the environ federal, state,	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:	Signature: John W. Jat					OIL CON	SERVATION	DIVISION		
Printed Name	e: John W	. Gates			Approved by	District Supervis ENVIRO	NMENTAL EN	GINEER		
Title: HSE	R Lead				Approval Dat	e: 11.10.	08 Expiration I	Date: 1. 10.09		
E-mail Addre	ess: John.V	V.Gates@con	ocophillip	s.com	Conditions of	Approval:	_	Attached		
• Attac	h Additior	Pho nal Sheets If	one: 505. Necessar	391.3158 y	COMPLE	12 34 1.	10.09			
FGRL 0833633357 IRP-1987										

FGRL 08336	33357-
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Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
Field data
Data table of soil contaminant concentration data
Depth to water determination
Determination of water sources and significant watercourses within 1/2-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.

Page 4 I hereby certify regulations all public health o failed to adegu	The the information given above is true and operators are required to report and/or file core the environment. The acceptance of a C-14 ately investigate and remediate contamination	v Mexico on Division	Incident ID District RP Facility ID Application ID and understand that pursu prective actions for rele e operator of liability sho to water human health	Page 18 of 101
addition, OCD and/or regulation	acceptance of a C-141 report does not reliev ons.	e the operator of responsibility for comp	liance with any other fee	deral, state, or local laws
Signature:	Charles R. Beauvais II	Date:		
email:		Telephone:		
OCD Only Received by:	Jocelyn Harimon	Date:04,	/25/2023	

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Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation 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 con	firmed as part of any request for deferral of remediation.			
Contamination must be in areas immediately under or around pr deconstruction.	roduction equipment where remediation could cause a major facility			
Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.			
I hereby certify that the information given above is true and comple rules and regulations all operators are required to report and/or file of which may endanger public health or the environment. The accepta liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD responsibility for compliance with any other federal, state, or local I Printed Name:	te to the best of my knowledge and understand that pursuant to OCD certain release notifications and perform corrective actions for releases nce of a C-141 report by the OCD does not relieve the operator of e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of aws and/or regulations. 			
OCD Only	04/25/2023			
	Date:			
Approved X Approved with Attached Conditions of	Approval Denied Deferral Approved			
Signature:	Date: 04/25/2023			

APPENDIX B Site Characterization Data

1RP-1987



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



(A CLW##### in the POD suffix indicates the POD has been	(R=POE been rep) has placed,	er (0	Ιι	In	nn	/A	vera	age De	epth t	o Wa	ter	
replaced & no longer serves a water right	O=orpha C=the fi	aned, le is		(qua	arte	rs ar	e 1=N	IW 2=N	E 3=SW 4	=SE)				
file.)	closed)			(arg	arte estj	rs ar)	e sma	illest to	(N	IAD83 UTM in n	neters)	(In feet)		
		POD Sub-		Q	Q	Q								w	ater
POD Number L_02687	Code	basin L	County LE	64	16 2	4 2	Sec 36	Tws 17S	Rng 33E	X 630137	Y 3629598* 🌍	DistanceDe 792	othWellDept	thWaterCo	lumn
<u>L 01695</u>	R	L	ED	4	4	2	25	17S	33E	630220	3630704* 🌍	1441	230	137	93
L 01695 POD2		L	LE	3	3	1	30	17S	34E	630346	3630669 🌍	1495	240	156	84
											Aver	age Depth to W	ater:	146 fee	ət
												Minimum De	pth:	137 fee	ət
												Maximum De	pth:	156 fee	ət
Record 3 Count: UTMNAD83 Radiu	us Search	<u>(in met</u>	ers):												
Easting (X): 62	9345.54		Nort	hing	g (Y):	3629	9558.6	6		Radius: 1600				
*LITM leastion was derive	ed from Pl	SS - SA	Heln												

WATER

APPENDIX C Photographic Documentation



TETRA TECH, INC.	DESCRIPTION	View facing southwest on well pad area and heater treater.	1
212C-MD-02152	SITE NAME	Philmex 3 Battery Tank Release	6/4/2020



TETRA TECH, INC.	DESCRIPTION	View facing south of site breaker boxes and flowline on well pad.	2
212C-MD-02152	SITE NAME	Philmex 3 Battery Tank Release	6/4/2020



TETRA TECH, INC.	DESCRIPTION	View facing south from well pad area.	3
212C-MD-02152	SITE NAME	Philmex 3 Battery Tank Release	6/4/2020



TETRA TECH, INC.	DESCRIPTION	View facing east from well pad area. Lease road in background.	4
212C-MD-02152	SITE NAME	Philmex 3 Battery Tank Release	6/4/2020



TETRA TECH, INC.	DESCRIPTION	View facing northwest of well pad area and heater treater.	5
212C-MD-02152	SITE NAME	Philmex 3 Battery Tank Release	6/4/2020



TETRA TECH, INC.	DESCRIPTION	View facing north of well pad area and heater treater.	6
212C-MD-02152	SITE NAME	Philmex 3 Battery Tank Release	6/4/2020

APPENDIX D Laboratory Analytical Data



ANALYTICAL REPORT

ConocoPhillips - Tetra Tech

Sample Delivery Group:

Samples Received:

Project Number:

Description:

Report To:

L1286041 11/14/2020 212C-MD-02334 TASK19 Philmex Battery #3 Battery Bleeder Valve Release (1RP-1987) Christian Llull 901 West Wall

Entire Report Reviewed By:

Erica Mc Neese

Erica McNeese Project Manager

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

Suite 100

Midland, TX 79701

Released to Imaging: 94/25/2023 10:09:56 AM ConocoPhillips - Tetra Tech PROJECT: 212C-MD-02334 TASK19 SDG: L1286041 DATE/TIME: 11/30/20 13:02

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BH-1 (9-10') L1286041-05	11
BH-1 (14-15') L1286041-06	12
BH-1 (19-20') L1286041-07	13
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BH-1 (0-1') L1286041-01 Solid			Joe Tyler	11/11/20 09:00	11/14/20 09:0)0
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
otal Solids by Method 2540 G-2011	WG1579963	1	11/21/20 03:34	11/21/20 03:43	KDW	Mt. Juliet, TN
Vet Chemistry by Method 300.0	WG1581719	5	11/24/20 11:31	11/24/20 15:23	ST	Mt. Juliet, TN
/olatile Organic Compounds (GC) by Method 8015D/GRO	WG1580865	1	11/20/20 09:15	11/23/20 06:50	ACG	Mt. Juliet, TI
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580782	1	11/20/20 09:15	11/22/20 17:05	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580903	1	11/24/20 09:24	11/24/20 17:36	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
BH-1 (2-3') L1286041-02 Solid			Soc Tyler	11/11/20 03:10	11/11/20 05.0	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Fotal Solids by Method 2540 G-2011	WG1579965	1	11/21/20 02:20	11/21/20 03:33	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1581719	1	11/24/20 11:31	11/24/20 15:33	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1581215	1	11/20/20 09:15	11/24/20 05:58	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580782	1	11/20/20 09:15	11/22/20 17:24	ACG	Mt. Juliet, Ti
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580903	1	11/24/20 09:24	11/24/20 17:09	TJD	Mt. Juliet, Th
			Collected by	Collected date/time	Received da	te/time
BH-1 (4-5') L1286041-03 Solid			Joe Tyler	11/11/20 09:20	11/14/20 09:0	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1579965	1	11/21/20 02:20	11/21/20 03:33	KDW	Mt. Juliet, TI
Net Chemistry by Method 300.0	WG1581719	1	11/24/20 11:31	11/24/20 15:42	ST	Mt. Juliet, Ti
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1581215	1	11/20/20 09:15	11/24/20 06:19	BMB	Mt. Juliet, Ti
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580782	1	11/20/20 09:15	11/22/20 17:43	ACG	Mt. Juliet, Ti
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580903	1	11/24/20 09:24	11/24/20 14:44	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received date/time	
BH-1 (6-7') L1286041-04 Solid			Joe Tyler	11/11/20 09:30	11/14/20 09:0	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579965	1	11/21/20 02:20	11/21/20 03:33	KDW	Mt. Juliet. Ti
Wet Chemistry by Method 300.0	WG1581719	1	11/24/20 11:31	11/24/20 15:52	ST	Mt. Juliet. Ti
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1581215	1	11/20/20 09:15	11/24/20 06:39	BMB	Mt. Juliet. TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580782	1	11/20/20 09:15	11/22/20 18:02	ACG	Mt. Juliet, T
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580903	1	11/24/20 09:24	11/24/20 14:57	TJD	Mt. Juliet, Ti
			Collected by	Collected date/time	Received da	te/time
BH-1 (9-10') L1286041-05 Solid			Joe Tyler	11/11/20 09:40	11/14/20 09:0	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579965	1	11/21/20 02:20	11/21/20 03:33	KDW	Mt. Juliet, T
Wet Chemistry by Method 300.0	WG1581719	1	11/24/20 11:31	11/24/20 16:02	ST	Mt. Juliet, Ti
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1581215	1	11/20/20 09:15	11/24/20 07:00	BMB	Mt. Juliet, Ti
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580782	1	11/20/20 09:15	11/22/20 18:21	ACG	Mt. Juliet, Ti
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580903	1	11/24/20 09.24	11/24/20 15.10	TID	Mt. Juliet. Ti

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3H-1 (14-15') L1286041-06 Solid			Joe Tyler	11/11/20 10:00	11/14/20 09:0)0
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579965	1	11/21/20 02:20	11/21/20 03:33	KDW	Mt. Juliet, T
Net Chemistry by Method 300.0	WG1581719	1	11/24/20 11:31	11/24/20 16:30	ST	Mt. Juliet, T
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1581215	1	11/20/20 09:15	11/24/20 07:21	BMB	Mt. Juliet, T
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580782	1	11/20/20 09:15	11/22/20 18:40	ACG	Mt. Juliet, T
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580903	1	11/24/20 09:24	11/24/20 15:23	TJD	Mt. Juliet, T
RH 1 (19 20') 12860/1 07 Solid			Collected by Joe Tyler	Collected date/time 11/11/20 10:20	Received da 11/14/20 09:0	te/time 00
BI-1 (19-20) E1280041-07 Solid			-			
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Fotal Solids by Method 2540 G-2011	WG1579965	1	11/21/20 02:20	11/21/20 03:33	KDW	Mt. Juliet, T
Net Chemistry by Method 300.0	WG1581719	1	11/24/20 11:31	11/24/20 16:40	ST	Mt. Juliet, T
/olatile Organic Compounds (GC) by Method 8015D/GRO	WG1581215	1	11/20/20 09:15	11/24/20 07:41	BMB	Mt. Juliet, T
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580782	1	11/20/20 09:15	11/22/20 18:59	ACG	Mt. Juliet, T
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580903	1	11/24/20 09:24	11/24/20 15:37	TJD	Mt. Juliet, T
			Collected by	Collected date/time	Received da	te/time
BH-2 (0-1') L1286041-08 Solid			Joe Tyler	11/11/20 11:00	11/14/20 09:0	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1579965	1	11/21/20 02:20	11/21/20 03:33	KDW	Mt. Juliet, T
Net Chemistry by Method 300.0	WG1581719	1	11/24/20 11:31	11/24/20 16:49	ST	Mt. Juliet, T
/olatile Organic Compounds (GC) by Method 8015D/GRO	WG1581215	1	11/20/20 09:15	11/24/20 08:02	BMB	Mt. Juliet, T
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580782	1	11/20/20 09:15	11/22/20 20:35	ACG	Mt. Juliet, T
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580903	2	11/24/20 09:24	11/24/20 18:16	TJD	Mt. Juliet, T
			Collected by	Collected date/time	Received da	te/time
BH-2 (2-3') L1286041-09 Solid			Joe Tyler	11/11/20 11:10	11/14/20 09:0	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579965	1	11/21/20 02:20	11/21/20 03:33	KDW	Mt. Juliet. T
Net Chemistry by Method 300.0	WG1581719	1	11/24/20 11:31	11/24/20 16:59	ST	Mt. Juliet. T
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1581215	1	11/20/20 09:15	11/24/20 08:22	BMB	Mt. Juliet. T
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580782	1	11/20/20 09:15	11/22/20 20:54	ACG	Mt. Juliet. T
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580903	1	11/24/20 09:24	11/24/20 17:23	TJD	Mt. Juliet, T
			Collected by	Collected date/time	Received da	te/time
BH-2 (4-5') L1286041-10 Solid			Joe Tyler	11/11/20 11:20	11/14/20 09:0)0
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Fotal Solids by Method 2540 G-2011	WG1579965	1	11/21/20 02:20	11/21/20 03:33	KDW	Mt. Juliet, T
Net Chemistry by Method 300.0	WG1581719	1	11/24/20 11:31	11/24/20 17:08	ST	Mt. Juliet, T
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1581215	1	11/20/20 09:15	11/24/20 08:43	BMB	Mt. Juliet, T
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580782	1	11/20/20 09:15	11/22/20 21:13	ACG	Mt. Juliet, T
Semi-Valatile Organic Compounds (GC) by Method 8015	WG1580903	1	11/24/20 09.24	11/24/20 16:56	TID	Mt Juliet T

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BH-2 (6-7') L1286041-11 Solid			Collected by Joe Tyler	Collected date/time 11/11/20 11:30	Received da 11/14/20 09:0	te/time 10
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579965	1	11/21/20 02:20	11/21/20 03:33	KDW	Mt. Juliet, TN
Net Chemistry by Method 300.0	WG1582473	1	11/26/20 00:30	11/26/20 07:49	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1581215	1	11/20/20 09:15	11/24/20 09:04	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580782	1	11/20/20 09:15	11/22/20 21:32	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580903	1	11/24/20 09:24	11/24/20 15:50	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
BH-2 (9-10) L1286041-12 Solid			Soc Tyler	1,1,1,20 11.10	101020 00.0	
Vethod	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579966	1	11/21/20 01:57	11/21/20 02:17	KDW	Mt. Juliet, TN
Net Chemistry by Method 300.0	WG1582473	1	11/26/20 00:30	11/26/20 08:06	ELN	Mt. Juliet, TN
/olatile Organic Compounds (GC) by Method 8015D/GRO	WG1581215	1	11/20/20 09:15	11/24/20 09:24	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580782	1	11/20/20 09:15	11/22/20 21:51	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580903	1	11/24/20 09:24	11/24/20 16:03	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
3H-2 (14-15') L1286041-13 Solid			Joe Tyler	11/11/20 11:50	11/14/20 09:0	0
BH-2 (14-15') L1286041-13 Solid	Batch	Dilution	Joe Tyler Preparation	11/11/20 11:50 Analysis	11/14/20 09:0 Analyst	Location
BH-2 (14-15') L1286041-13 Solid Method	Batch	Dilution	Joe Tyler Preparation date/time	11/11/20 11:50 Analysis date/time	11/14/20 09:0 Analyst	Location
BH-2 (14-15') L1286041-13 Solid Method Total Solids by Method 2540 G-2011	Batch WG1579966	Dilution 1	Joe Tyler Preparation date/time 11/21/20 01:57	11/11/20 11:50 Analysis date/time 11/21/20 02:17	11/14/20 09:0 Analyst KDW	Location Mt. Juliet, TN
BH-2 (14-15') L1286041-13 Solid Method Fotal Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	Batch WG1579966 WG1582473	Dilution 1 1	Joe Tyler Preparation date/time 11/21/20 01:57 11/26/20 00:30	11/11/20 11:50 Analysis date/time 11/21/20 02:17 11/26/20 08:40	11/14/20 09:0 Analyst KDW ELN	Location Mt. Juliet, TN Mt. Juliet, TN
BH-2 (14-15') L1286041-13 Solid Method Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 /olatile Organic Compounds (GC) by Method 8015D/GRO	Batch WG1579966 WG1582473 WG1581215	Dilution 1 1 1	Joe Tyler Preparation date/time 11/21/20 01:57 11/26/20 00:30 11/20/20 09:15	11/11/20 11:50 Analysis date/time 11/21/20 02:17 11/26/20 08:40 11/24/20 09:45	Analyst KDW ELN BMB	Location Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN
BH-2 (14-15') L1286041-13 Solid Method Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 /olatile Organic Compounds (GC) by Method 8015D/GR0 /olatile Organic Compounds (GC/MS) by Method 8260B	Batch WG1579966 WG1582473 WG1581215 WG1580782	Dilution 1 1 1 1	Joe Tyler Preparation date/time 11/21/20 01:57 11/26/20 00:30 11/20/20 09:15 11/20/20 09:15	11/11/20 11:50 Analysis date/time 11/21/20 02:17 11/26/20 08:40 11/24/20 09:45 11/22/20 22:10	Analyst KDW ELN BMB ACG	0 Location Mt. Juliet, Th Mt. Juliet, Th Mt. Juliet, Th Mt. Juliet, Th
BH-2 (14-15') L1286041-13 Solid Method Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 Volatile Organic Compounds (GC) by Method 8015D/GRO Volatile Organic Compounds (GC/MS) by Method 8260B Semi-Volatile Organic Compounds (GC) by Method 8015	Batch WG1579966 WG1582473 WG1581215 WG1580782 WG1580903	Dilution 1 1 1 1 1 1	Joe Tyler Preparation date/time 11/21/20 01:57 11/26/20 00:30 11/20/20 09:15 11/20/20 09:15 11/24/20 09:24	11/11/20 11:50 Analysis date/time 11/21/20 02:17 11/26/20 08:40 11/24/20 09:45 11/22/20 22:10 11/24/20 16:17	Analyst KDW ELN BMB ACG TJD	Location Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN
BH-2 (14-15') L1286041-13 Solid Method Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 Volatile Organic Compounds (GC) by Method 8015D/GRO Volatile Organic Compounds (GC/MS) by Method 8260B Semi-Volatile Organic Compounds (GC) by Method 8015	Batch WG1579966 WG1582473 WG1581215 WG1580782 WG1580903	Dilution 1 1 1 1 1	Joe Tyler Preparation date/time 11/21/20 01:57 11/26/20 00:30 11/20/20 09:15 11/20/20 09:15 11/24/20 09:24 Collected by Joe Tyler	11/11/20 11:50 Analysis date/time 11/21/20 02:17 11/26/20 08:40 11/24/20 09:45 11/22/20 22:10 11/24/20 16:17 Collected date/time 11/11/20 12:00	11/14/20 09:0 Analyst KDW ELN BMB ACG TJD Received da 11/14/20 09:0	Location Mt. Juliet, Tr Mt. Juliet, Tr Mt. Juliet, Tr Mt. Juliet, Tr Mt. Juliet, Tr Mt. Juliet, Tr te/time
BH-2 (14-15') L1286041-13 Solid Method Total Solids by Method 2540 G-2011 Net Chemistry by Method 300.0 Volatile Organic Compounds (GC) by Method 8015D/GR0 Volatile Organic Compounds (GC/MS) by Method 8260B Semi-Volatile Organic Compounds (GC) by Method 8015 BH-2 (19-20') L1286041-14 Solid Method	Batch WG1579966 WG1582473 WG1581215 WG1580782 WG1580903 Batch	Dilution 1 1 1 1 1 1 Dilution	Joe Tyler Preparation date/time 11/21/20 01:57 11/26/20 00:30 11/20/20 09:15 11/20/20 09:15 11/24/20 09:24 Collected by Joe Tyler Preparation	11/11/20 11:50 Analysis date/time 11/21/20 02:17 11/26/20 08:40 11/24/20 09:45 11/22/20 22:10 11/24/20 16:17 Collected date/time 11/11/20 12:00 Analysis	11/14/20 09:0 Analyst KDW ELN BMB ACG TJD Received da 11/14/20 09:0	Location Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN te/time 10
BH-2 (14-15') L1286041-13 Solid Method Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 /olatile Organic Compounds (GC) by Method 8015D/GR0 /olatile Organic Compounds (GC/MS) by Method 8015 Semi-Volatile Organic Compounds (GC) by Method 8015 BH-2 (19-20') L1286041-14 Solid Method	Batch WG1579966 WG1582473 WG1581215 WG1580782 WG1580903 Batch	Dilution 1 1 1 1 1 1 Dilution	Joe Tyler Preparation date/time 11/21/20 01:57 11/26/20 00:30 11/20/20 09:15 11/20/20 09:15 11/20/20 09:24 Collected by Joe Tyler Preparation date/time	11/11/20 11:50 Analysis date/time 11/21/20 02:17 11/26/20 08:40 11/24/20 09:45 11/22/20 22:10 11/24/20 16:17 Collected date/time 11/1/20 12:00 Analysis date/time	11/14/20 09:0 Analyst KDW ELN BMB ACG TJD Received da 11/14/20 09:0 Analyst	0 Location Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN te/time 10 Location
BH-2 (14-15') L1286041-13 Solid Method Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 /olatile Organic Compounds (GC) by Method 8015D/GRO /olatile Organic Compounds (GC/MS) by Method 8260B Semi-Volatile Organic Compounds (GC) by Method 8015 BH-2 (19-20') L1286041-14 Solid Method Total Solids by Method 2540 G-2011	Batch WG1579966 WG1582473 WG1581215 WG1580782 WG1580903 Batch WG1579966	Dilution 1 1 1 1 1 1 Dilution Dilution	Joe Tyler Preparation date/time 11/21/20 01:57 11/26/20 00:30 11/20/20 09:15 11/20/20 09:15 11/24/20 09:24 Collected by Joe Tyler Preparation date/time 11/21/20 01:57	11/11/20 11:50 Analysis date/time 11/21/20 02:17 11/26/20 08:40 11/24/20 09:45 11/22/20 22:10 11/24/20 16:17 Collected date/time 11/11/20 12:00 Analysis date/time 11/21/20 02:17	11/14/20 09:0 Analyst KDW ELN BMB ACG TJD Received da 11/14/20 09:0 Analyst KDW	0 Location Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN te/time 10 Location Mt. Juliet, TN
BH-2 (14-15') L1286041-13 Solid Method Total Solids by Method 2540 G-2011 Net Chemistry by Method 300.0 /olatile Organic Compounds (GC) by Method 8015D/GR0 /olatile Organic Compounds (GC/MS) by Method 8260B Semi-Volatile Organic Compounds (GC) by Method 8015 BH-2 (19-20') L1286041-14 Solid Method Total Solids by Method 2540 G-2011 Net Chemistry by Method 300.0	Batch WG1579966 WG1582473 WG1581215 WG1580782 WG1580903 Batch WG1579966 WG1579966 WG1579966	Dilution 1 1 1 1 1 1 Dilution Dilution 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Joe Tyler Preparation date/time 11/21/20 01:57 11/26/20 00:30 11/20/20 09:15 11/20/20 09:15 11/24/20 09:24 Collected by Joe Tyler Preparation date/time 11/21/20 01:57 11/26/20 00:30	11/11/20 11:50 Analysis date/time 11/21/20 02:17 11/26/20 08:40 11/24/20 09:45 11/22/20 22:10 11/24/20 16:17 Collected date/time 11/11/20 12:00 Analysis date/time 11/21/20 02:17 11/26/20 08:57	11/14/20 09:0 Analyst KDW ELN BMB ACG TJD Received da 11/14/20 09:0 Analyst KDW ELN	0 Location Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Location Mt. Juliet, TN Mt. Juliet, TN
BH-2 (14-15') L1286041-13 Solid Method Total Solids by Method 2540 G-2011 Net Chemistry by Method 300.0 /olatile Organic Compounds (GC) by Method 8015D/GR0 /olatile Organic Compounds (GC/MS) by Method 8260B Semi-Volatile Organic Compounds (GC) by Method 8015 BH-2 (19-20') L1286041-14 Solid Method Total Solids by Method 2540 G-2011 Net Chemistry by Method 300.0 /olatile Organic Compounds (GC) by Method 8015D/GR0	Batch WG1579966 WG1582473 WG1581215 WG1580782 WG1580903 Batch Batch WG1579966 WG1579966 WG1582473 WG1581215	Dilution 1 1 1 1 1 1 Dilution Dilution 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Joe Tyler Preparation date/time 11/21/20 01:57 11/26/20 00:30 11/20/20 09:15 11/20/20 09:15 11/24/20 09:24 Collected by Joe Tyler Preparation date/time 11/21/20 01:57 11/26/20 00:30 11/20/20 09:15	11/11/20 11:50 Analysis date/time 11/21/20 02:17 11/26/20 08:40 11/24/20 09:45 11/22/20 22:10 11/24/20 16:17 Collected date/time 11/11/20 12:00 Analysis date/time 11/21/20 02:17 11/26/20 08:57 11/24/20 10:05	11/14/20 09:0 Analyst KDW ELN BMB ACG TJD Received da 11/14/20 09:0 Analyst KDW ELN BMB	0 Location Mt. Juliet, Th Mt. Juliet, Th Mt. Juliet, Th Mt. Juliet, Th Mt. Juliet, Th Location Mt. Juliet, Th Mt. Juliet, Th
BH-2 (14-15') L1286041-13 Solid Method Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 /olatile Organic Compounds (GC) by Method 8015D/GR0 /olatile Organic Compounds (GC/MS) by Method 8260B Semi-Volatile Organic Compounds (GC) by Method 8015 BH-2 (19-20') L1286041-14 Solid Method Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 /olatile Organic Compounds (GC) by Method 8015D/GR0 /olatile Organic Compounds (GC/MS) by Method 8015D/GR0 /olatile Organic Compounds (GC/MS) by Method 8260B	Batch WG1579966 WG1582473 WG1581215 WG1580782 WG1580903 Batch Batch WG1579966 WG1582473 WG1582473 WG1581215 WG1580782	Dilution	Joe Tyler Preparation date/time 11/21/20 01:57 11/26/20 00:30 11/20/20 09:15 11/20/20 09:15 11/24/20 09:24 Collected by Joe Tyler Preparation date/time 11/21/20 01:57 11/26/20 00:30 11/20/20 09:15 11/20/20 09:15	11/11/20 11:50 Analysis date/time 11/21/20 02:17 11/26/20 08:40 11/24/20 09:45 11/22/20 22:10 11/24/20 16:17 Collected date/time 11/11/20 12:00 Analysis date/time 11/21/20 02:17 11/26/20 08:57 11/24/20 10:05 11/22/20 22:29	11/14/20 09:0 Analyst ELN BMB ACG TJD Received da 11/14/20 09:0 Analyst KDW ELN BMB ACG	Location Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Location Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN

PROJECT: 212C-MD-02334 TASK19

SDG: L1286041 DATE/TIME: 11/30/20 13:02 **PAGE**: 5 of 34

CASE NARRATIVE

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

Erica Mc Neese

Erica McNeese Project Manager



PROJECT: 212C-MD-02334 TASK19

SDG: L1286041

DATE/TIME: 11/30/20 13:02

PAGE: 6 of 34 Received by DCD: 4/17/2023 11:08:45 AM Collected date/time: 11/11/20 09:00 SAMPLE RESULTS - 01

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch		2
Analyte	%			date / time		2	_
Total Solids	94.7		1	11/21/2020 03:43	WG1579963	T	0

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	338		48.6	106	5	11/24/2020 15:23	WG1581719

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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		ľQ
TPH (GC/FID) Low Fraction	U		0.0229	0.106	1	11/23/2020 06:50	WG1580865	
(S) a,a,a-Trifluorotoluene(FID)	107			77.0-120		11/23/2020 06:50	<u>WG1580865</u>	⁷ Gl

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000519	0.00111	1	11/22/2020 17:05	WG1580782
Toluene	U		0.00145	0.00556	1	11/22/2020 17:05	<u>WG1580782</u>
Ethylbenzene	U		0.000819	0.00278	1	11/22/2020 17:05	WG1580782
Total Xylenes	U		0.000978	0.00723	1	11/22/2020 17:05	WG1580782
(S) Toluene-d8	110			75.0-131		11/22/2020 17:05	WG1580782
(S) 4-Bromofluorobenzene	92.8			67.0-138		11/22/2020 17:05	WG1580782
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/22/2020 17:05	WG1580782

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	34.1		1.70	4.22	1	11/24/2020 17:36	WG1580903
C28-C40 Oil Range	167		0.289	4.22	1	11/24/2020 17:36	WG1580903
(S) o-Terphenyl	73.7			18.0-148		11/24/2020 17:36	WG1580903

DATE/TIME: 11/30/20 13:02

SAMPLE RESULTS - 02 L1286041

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch		2
Analyte	%			date / time		2	_
Total Solids	95.3		1	11/21/2020 03:33	WG1579965	T	ſ

Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time		4 Cn	
Chloride	943		9.65	21.0	1	11/24/2020 15:33	WG1581719		

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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		ČQ
TPH (GC/FID) Low Fraction	0.0341	ВJ	0.0228	0.105	1	11/24/2020 05:58	WG1581215	
(S) a,a,a-Trifluorotoluene(FID)	94.0			77.0-120		11/24/2020 05:58	WG1581215	⁷ Gl

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000513	0.00110	1	11/22/2020 17:24	WG1580782
Toluene	U		0.00143	0.00549	1	11/22/2020 17:24	WG1580782
Ethylbenzene	U		0.000809	0.00274	1	11/22/2020 17:24	WG1580782
Total Xylenes	U		0.000966	0.00714	1	11/22/2020 17:24	WG1580782
(S) Toluene-d8	111			75.0-131		11/22/2020 17:24	WG1580782
(S) 4-Bromofluorobenzene	88.7			67.0-138		11/22/2020 17:24	WG1580782
(S) 1,2-Dichloroethane-d4	104			70.0-130		11/22/2020 17:24	WG1580782

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.30	J	1.69	4.20	1	11/24/2020 17:09	WG1580903
C28-C40 Oil Range	10.6	B	0.287	4.20	1	11/24/2020 17:09	WG1580903
(S) o-Terphenyl	81.6			18.0-148		11/24/2020 17:09	WG1580903

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SAMPLE RESULTS - 03 L1286041

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch		С
Analyte	%			date / time		2	_
Total Solids	96.8		1	11/21/2020 03:33	WG1579965	12.	To

Wet Chemistry by Method 300.0

Wet Chemistry	/ by Method 300	0.0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		4 Cn
Chloride	613		9.50	20.7	1	11/24/2020 15:42	WG1581719	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		ľQ
TPH (GC/FID) Low Fraction	0.0287	<u>B J</u>	0.0224	0.103	1	11/24/2020 06:19	WG1581215	
(S) a,a,a-Trifluorotoluene(FID)	94.7			77.0-120		11/24/2020 06:19	WG1581215	⁷ Gl

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000498	0.00107	1	11/22/2020 17:43	WG1580782
Toluene	U		0.00139	0.00533	1	11/22/2020 17:43	<u>WG1580782</u>
Ethylbenzene	U		0.000786	0.00266	1	11/22/2020 17:43	WG1580782
Total Xylenes	U		0.000938	0.00693	1	11/22/2020 17:43	<u>WG1580782</u>
(S) Toluene-d8	110			75.0-131		11/22/2020 17:43	WG1580782
(S) 4-Bromofluorobenzene	88.8			67.0-138		11/22/2020 17:43	<u>WG1580782</u>
(S) 1,2-Dichloroethane-d4	108			70.0-130		11/22/2020 17:43	WG1580782

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.66	4.13	1	11/24/2020 14:44	WG1580903
C28-C40 Oil Range	0.957	<u>B J</u>	0.283	4.13	1	11/24/2020 14:44	WG1580903
(S) o-Terphenyl	82.5			18.0-148		11/24/2020 14:44	WG1580903

SAMPLE RESULTS - 04 L1286041

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	C
Analyte	%			date / time		2
Total Solids	97.0		1	11/21/2020 03:33	WG1579965	T

Wet Chemistry by Method 300.0

Wet Chemistry b	by Method 300	0.0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		4 Cn
Chloride	364		9.48	20.6	1	11/24/2020 15:52	WG1581719	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		ľQ
TPH (GC/FID) Low Fraction	0.0268	ВJ	0.0224	0.103	1	11/24/2020 06:39	WG1581215	
(S) a,a,a-Trifluorotoluene(FID)	94.8			77.0-120		11/24/2020 06:39	WG1581215	⁷ Gl

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000496	0.00106	1	11/22/2020 18:02	<u>WG1580782</u>
Toluene	U		0.00138	0.00531	1	11/22/2020 18:02	<u>WG1580782</u>
Ethylbenzene	U		0.000783	0.00265	1	11/22/2020 18:02	WG1580782
Total Xylenes	U		0.000934	0.00690	1	11/22/2020 18:02	<u>WG1580782</u>
(S) Toluene-d8	111			75.0-131		11/22/2020 18:02	<u>WG1580782</u>
(S) 4-Bromofluorobenzene	92.4			67.0-138		11/22/2020 18:02	<u>WG1580782</u>
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/22/2020 18:02	WG1580782

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.66	4.12	1	11/24/2020 14:57	WG1580903
C28-C40 Oil Range	U		0.282	4.12	1	11/24/2020 14:57	<u>WG1580903</u>
(S) o-Terphenyl	72.8			18.0-148		11/24/2020 14:57	WG1580903

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	C
Analyte	%			date / time		2
Total Solids	97.0		1	11/21/2020 03:33	WG1579965	T

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	131		9.48	20.6	1	11/24/2020 16:02	WG1581719

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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		ČQ
TPH (GC/FID) Low Fraction	0.0279	ВJ	0.0224	0.103	1	11/24/2020 07:00	WG1581215	
(S) a,a,a-Trifluorotoluene(FID)	93.8			77.0-120		11/24/2020 07:00	WG1581215	⁷ Gl

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000495	0.00106	1	11/22/2020 18:21	WG1580782
Toluene	U		0.00138	0.00530	1	11/22/2020 18:21	<u>WG1580782</u>
Ethylbenzene	U		0.000782	0.00265	1	11/22/2020 18:21	WG1580782
Total Xylenes	U		0.000934	0.00690	1	11/22/2020 18:21	<u>WG1580782</u>
(S) Toluene-d8	113			75.0-131		11/22/2020 18:21	<u>WG1580782</u>
(S) 4-Bromofluorobenzene	91.6			67.0-138		11/22/2020 18:21	<u>WG1580782</u>
(S) 1,2-Dichloroethane-d4	109			70.0-130		11/22/2020 18:21	WG1580782

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.66	4.12	1	11/24/2020 15:10	WG1580903
C28-C40 Oil Range	U		0.282	4.12	1	11/24/2020 15:10	WG1580903
(S) o-Terphenyl	76.7			18.0-148		11/24/2020 15:10	WG1580903

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SAMPLE RESULTS - 06 L1286041

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch		С
Analyte	%			date / time		2	_
Total Solids	97.0		1	11/21/2020 03:33	WG1579965	2	Тс

Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0									³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		L
Analyte	mg/kg		mg/kg	mg/kg		date / time			4 Cn
Chloride	125		9.49	20.6	1	11/24/2020 16:30	WG1581719		

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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		ľQ
TPH (GC/FID) Low Fraction	0.0305	ВJ	0.0224	0.103	1	11/24/2020 07:21	WG1581215	
(S) a,a,a-Trifluorotoluene(FID)	91.9			77.0-120		11/24/2020 07:21	WG1581215	⁷ Gl

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000496	0.00106	1	11/22/2020 18:40	<u>WG1580782</u>
Toluene	U		0.00138	0.00531	1	11/22/2020 18:40	<u>WG1580782</u>
Ethylbenzene	U		0.000783	0.00266	1	11/22/2020 18:40	WG1580782
Total Xylenes	U		0.000935	0.00691	1	11/22/2020 18:40	<u>WG1580782</u>
(S) Toluene-d8	112			75.0-131		11/22/2020 18:40	<u>WG1580782</u>
(S) 4-Bromofluorobenzene	89.3			67.0-138		11/22/2020 18:40	<u>WG1580782</u>
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/22/2020 18:40	WG1580782

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.66	4.13	1	11/24/2020 15:23	WG1580903
C28-C40 Oil Range	U		0.283	4.13	1	11/24/2020 15:23	<u>WG1580903</u>
(S) o-Terphenyl	80.7			18.0-148		11/24/2020 15:23	WG1580903

SDG: L1286041

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch		C
Analyte	%			date / time		2	_
Total Solids	95.4		1	11/21/2020 03:33	WG1579965		Т

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	102		9.65	21.0	1	11/24/2020 16:40	WG1581719

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		ľQ
TPH (GC/FID) Low Fraction	0.0287	ВJ	0.0228	0.105	1	11/24/2020 07:41	WG1581215	
(S) a,a,a-Trifluorotoluene(FID)	94.7			77.0-120		11/24/2020 07:41	WG1581215	⁷ Gl

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000512	0.00110	1	11/22/2020 18:59	WG1580782
Toluene	U		0.00143	0.00549	1	11/22/2020 18:59	<u>WG1580782</u>
Ethylbenzene	U		0.000809	0.00274	1	11/22/2020 18:59	WG1580782
Total Xylenes	U		0.000966	0.00713	1	11/22/2020 18:59	WG1580782
(S) Toluene-d8	111			75.0-131		11/22/2020 18:59	WG1580782
(S) 4-Bromofluorobenzene	90.1			67.0-138		11/22/2020 18:59	WG1580782
(S) 1,2-Dichloroethane-d4	109			70.0-130		11/22/2020 18:59	WG1580782

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.69	4.19	1	11/24/2020 15:37	WG1580903
C28-C40 Oil Range	0.562	<u>B J</u>	0.287	4.19	1	11/24/2020 15:37	<u>WG1580903</u>
(S) o-Terphenyl	81.0			18.0-148		11/24/2020 15:37	WG1580903

SAMPLE RESULTS - 08 L1286041

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch		C
Analyte	%			date / time		2	_
Total Solids	97.6		1	11/21/2020 03:33	WG1579965		T

Wet Chemistry by Method 300.0

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		⁴ Cn
Chloride	10.1	J	9.42	20.5	1	11/24/2020 16:49	WG1581719	CII

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		ľQ
TPH (GC/FID) Low Fraction	0.0269	ВJ	0.0222	0.102	1	11/24/2020 08:02	WG1581215	
(S) a,a,a-Trifluorotoluene(FID)	94.8			77.0-120		11/24/2020 08:02	WG1581215	⁷ Gl

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000490	0.00105	1	11/22/2020 20:35	WG1580782
Toluene	U		0.00136	0.00524	1	11/22/2020 20:35	<u>WG1580782</u>
Ethylbenzene	U		0.000773	0.00262	1	11/22/2020 20:35	WG1580782
Total Xylenes	0.00210	J	0.000923	0.00682	1	11/22/2020 20:35	<u>WG1580782</u>
(S) Toluene-d8	113			75.0-131		11/22/2020 20:35	WG1580782
(S) 4-Bromofluorobenzene	92.1			67.0-138		11/22/2020 20:35	<u>WG1580782</u>
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/22/2020 20:35	WG1580782

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	38.2		3.30	8.20	2	11/24/2020 18:16	WG1580903
C28-C40 Oil Range	190		0.561	8.20	2	11/24/2020 18:16	<u>WG1580903</u>
(S) o-Terphenyl	89.9			18.0-148		11/24/2020 18:16	WG1580903

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch		-
Analyte	%			date / time		2	_
Total Solids	96.7		1	11/21/2020 03:33	WG1579965	1	ſ

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	34.1		9.52	20.7	1	11/24/2020 16:59	WG1581719

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		ľQ
TPH (GC/FID) Low Fraction	0.0228	ВJ	0.0224	0.103	1	11/24/2020 08:22	WG1581215	
(S) a,a,a-Trifluorotoluene(FID)	94.7			77.0-120		11/24/2020 08:22	WG1581215	⁷ Gl

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000499	0.00107	1	11/22/2020 20:54	WG1580782
Toluene	U		0.00139	0.00535	1	11/22/2020 20:54	<u>WG1580782</u>
Ethylbenzene	U		0.000788	0.00267	1	11/22/2020 20:54	WG1580782
Total Xylenes	U		0.000941	0.00695	1	11/22/2020 20:54	<u>WG1580782</u>
(S) Toluene-d8	113			75.0-131		11/22/2020 20:54	WG1580782
(S) 4-Bromofluorobenzene	91.8			67.0-138		11/22/2020 20:54	<u>WG1580782</u>
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/22/2020 20:54	WG1580782

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.67	4.14	1	11/24/2020 17:23	WG1580903
C28-C40 Oil Range	8.20	B	0.283	4.14	1	11/24/2020 17:23	<u>WG1580903</u>
(S) o-Terphenyl	77.8			18.0-148		11/24/2020 17:23	WG1580903

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	
Analyte	%			date / time		2
Total Solids	96.3		1	11/21/2020 03:33	WG1579965	T

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	330		9.56	20.8	1	11/24/2020 17:08	WG1581719

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		ľQ
TPH (GC/FID) Low Fraction	0.0250	ВJ	0.0225	0.104	1	11/24/2020 08:43	WG1581215	
(S) a,a,a-Trifluorotoluene(FID)	94.0			77.0-120		11/24/2020 08:43	WG1581215	⁷ Gl

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000503	0.00108	1	11/22/2020 21:13	WG1580782
Toluene	U		0.00140	0.00539	1	11/22/2020 21:13	<u>WG1580782</u>
Ethylbenzene	U		0.000794	0.00269	1	11/22/2020 21:13	WG1580782
Total Xylenes	U		0.000948	0.00700	1	11/22/2020 21:13	WG1580782
(S) Toluene-d8	110			75.0-131		11/22/2020 21:13	WG1580782
(S) 4-Bromofluorobenzene	89.3			67.0-138		11/22/2020 21:13	WG1580782
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/22/2020 21:13	WG1580782

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.67	4.15	1	11/24/2020 16:56	WG1580903
C28-C40 Oil Range	1.79	<u>B J</u>	0.285	4.15	1	11/24/2020 16:56	WG1580903
(S) o-Terphenyl	65.0			18.0-148		11/24/2020 16:56	WG1580903

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	
Analyte	%			date / time		2
Total Solids	97.9		1	11/21/2020 03:33	WG1579965	T

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	204		9.39	20.4	1	11/26/2020 07:49	WG1582473

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		ľQ
TPH (GC/FID) Low Fraction	0.0235	ВJ	0.0222	0.102	1	11/24/2020 09:04	WG1581215	
(S) a,a,a-Trifluorotoluene(FID)	94.5			77.0-120		11/24/2020 09:04	WG1581215	⁷ Gl

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000487	0.00104	1	11/22/2020 21:32	WG1580782
Toluene	U		0.00135	0.00521	1	11/22/2020 21:32	<u>WG1580782</u>
Ethylbenzene	U		0.000768	0.00261	1	11/22/2020 21:32	WG1580782
Total Xylenes	U		0.000917	0.00677	1	11/22/2020 21:32	WG1580782
(S) Toluene-d8	111			75.0-131		11/22/2020 21:32	WG1580782
(S) 4-Bromofluorobenzene	87.1			67.0-138		11/22/2020 21:32	WG1580782
(S) 1,2-Dichloroethane-d4	104			70.0-130		11/22/2020 21:32	WG1580782

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.64	4.08	1	11/24/2020 15:50	WG1580903
C28-C40 Oil Range	0.334	<u>B J</u>	0.280	4.08	1	11/24/2020 15:50	<u>WG1580903</u>
(S) o-Terphenyl	75.7			18.0-148		11/24/2020 15:50	WG1580903

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch		Ч
Analyte	%			date / time		2	_
Total Solids	97.3		1	11/21/2020 02:17	WG1579966	1	Тс

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	163		9.45	20.6	1	11/26/2020 08:06	WG1582473

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		ľQ
TPH (GC/FID) Low Fraction	0.0265	<u>B J</u>	0.0223	0.103	1	11/24/2020 09:24	WG1581215	
(S) a,a,a-Trifluorotoluene(FID)	95.4			77.0-120		11/24/2020 09:24	WG1581215	⁷ Gl

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000493	0.00106	1	11/22/2020 21:51	WG1580782
Toluene	U		0.00137	0.00528	1	11/22/2020 21:51	WG1580782
Ethylbenzene	U		0.000778	0.00264	1	11/22/2020 21:51	WG1580782
Total Xylenes	U		0.000929	0.00686	1	11/22/2020 21:51	WG1580782
(S) Toluene-d8	110			75.0-131		11/22/2020 21:51	WG1580782
(S) 4-Bromofluorobenzene	89.8			67.0-138		11/22/2020 21:51	WG1580782
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/22/2020 21:51	WG1580782

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.65	4.11	1	11/24/2020 16:03	WG1580903
C28-C40 Oil Range	1.44	<u>B J</u>	0.282	4.11	1	11/24/2020 16:03	<u>WG1580903</u>
(S) o-Terphenyl	75.1			18.0-148		11/24/2020 16:03	WG1580903

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch		-1
Analyte	%			date / time		2	_
Total Solids	93.0		1	11/21/2020 02:17	WG1579966	T	Ċ

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	168		9.89	21.5	1	11/26/2020 08:40	WG1582473

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		ľQ
TPH (GC/FID) Low Fraction	0.0248	ВJ	0.0233	0.108	1	11/24/2020 09:45	WG1581215	
(S) a,a,a-Trifluorotoluene(FID)	94.5			77.0-120		11/24/2020 09:45	<u>WG1581215</u>	⁷ Gl

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000538	0.00115	1	11/22/2020 22:10	<u>WG1580782</u>
Toluene	U		0.00150	0.00576	1	11/22/2020 22:10	WG1580782
Ethylbenzene	U		0.000849	0.00288	1	11/22/2020 22:10	WG1580782
Total Xylenes	U		0.00101	0.00748	1	11/22/2020 22:10	WG1580782
(S) Toluene-d8	112			75.0-131		11/22/2020 22:10	WG1580782
(S) 4-Bromofluorobenzene	92.3			67.0-138		11/22/2020 22:10	WG1580782
(S) 1,2-Dichloroethane-d4	102			70.0-130		11/22/2020 22:10	WG1580782

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.73	4.30	1	11/24/2020 16:17	WG1580903
C28-C40 Oil Range	U		0.295	4.30	1	11/24/2020 16:17	WG1580903
(S) o-Terphenyl	79.3			18.0-148		11/24/2020 16:17	WG1580903

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch		C
Analyte	%			date / time		2	_
Total Solids	94.3		1	11/21/2020 02:17	<u>WG1579966</u>	12.	Τc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	122		9.76	21.2	1	11/26/2020 08:57	WG1582473

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	 6
Analyte	mg/kg		mg/kg	mg/kg		date / time		[°] Q0
TPH (GC/FID) Low Fraction	0.0258	ВJ	0.0230	0.106	1	11/24/2020 10:05	WG1581215	
(S) a,a,a-Trifluorotoluene(FID)	94.7			77.0-120		11/24/2020 10:05	WG1581215	⁷ Gl

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000523	0.00112	1	11/22/2020 22:29	WG1580782
Toluene	U		0.00146	0.00560	1	11/22/2020 22:29	WG1580782
Ethylbenzene	U		0.000826	0.00280	1	11/22/2020 22:29	WG1580782
Total Xylenes	U		0.000986	0.00729	1	11/22/2020 22:29	WG1580782
(S) Toluene-d8	110			75.0-131		11/22/2020 22:29	WG1580782
(S) 4-Bromofluorobenzene	93.6			67.0-138		11/22/2020 22:29	WG1580782
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/22/2020 22:29	WG1580782

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.71	4.24	1	11/24/2020 16:30	WG1580903
C28-C40 Oil Range	U		0.291	4.24	1	11/24/2020 16:30	WG1580903
(S) o-Terphenyl	71.4			18.0-148		11/24/2020 16:30	WG1580903

Req @ q by 9615 3/17/2023 11:08:45 AM

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY L1286041-01

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Method Blank (MB)

(MB) R3595805-1 11/21/20 03:43									
	MB Result	MB Qualifier	MB MDL	MB RDL					
Analyte	%		%	%		C			
Total Solids	0.00100								
					³ Ss	is			

L1286037-13 Original Sample (OS) • Duplicate (DUP)

L1286037-13 Origin	1286037-13 Original Sample (OS) • Duplicate (DUP)										
(OS) L1286037-13 11/21/20 03:43 • (DUP) R3595805-3 11/21/20 03:43											
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	⁵ Sr				
Analyte	%	%		%		%					
Total Solids	95.8	95.6	1	0.169		10	6				

Laboratory Control Sample (LCS)

(LCS) R3595805-2 11/21/	/20 03:43				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

SDG: L1286041

DATE/TIME: 11/30/20 13:02

PAGE: 21 of 34

Req @ qd by 0615 d/17/2023 11:08:45 AM

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY L1286041-02.03.04.05.06.07.08.09.10.11

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Method Blank (MB)

(MB) R3595804-1 11/21/20 03:33									
Analyte	%		%	%	Tc				
Total Solids	0.00200								
					³ Ss				

L1286041-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1286041-02 11/21/2	0 03:33 • (DUP)	R3595804-3	11/21/20 0	3:33		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	95.3	97.3	1	2.01		10

Laboratory Control Sample (LCS)

(LCS) R3595804-2 11/21	1/20 03:33				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	49.9	99.8	85.0-115	

SDG: L1286041 DATE/TIME: 11/30/20 13:02 PAGE: 22 of 34

Req @ q by 9615 @/17/2023 11:08:45 AM

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY L1286041-12,13,14

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Method Blank (MB)

Method Blauk									
(MB) R3595802-1 11/21/20 02:17									
	MB Result	MB Qualifier	MB MDL	MB RDL		2			
Analyte	%		%	%		Tc			
Total Solids	0.00100								
						³ Ss			

L1286041-13 Original Sample (OS) • Duplicate (DUP)

L1286041-13 Original Sample (OS) • Duplicate (DUP)										
(OS) L1286041-13 11/21/20 02:17 • (DUP) R3595802-3 11/21/20 02:17										
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	5			
Analyte	%	%		%		%				
Total Solids	93.0	93.1	1	0.153		10	°C			

Laboratory Control Sample (LCS)

(LCS) R3595802-2 11/21/	/20 02:17				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

SDG: L1286041

DATE/TIME: 11/30/20 13:02

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Regeneration OFD 4/17/2023 11:08:45 AM

Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY L1286041-01,02,03,04,05,06,07,08,09,10

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Method Blank (MB)

(MB) R3597137-1 11/24/20	0 12:32			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		9.20	20.0

L1286037-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1286037-07 11/24/2)S) L1286037-07 11/24/20 13:01 • (DUP) R3597137-3 11/24/20 13:10										
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits					
Analyte	mg/kg	mg/kg		%		%					
Chloride	35.3	35.7	1	0.947		20					

L1286041-10 Original Sample (OS) • Duplicate (DUP)

L1286041-10 Original Sample (OS) • Duplicate (DUP)											
(OS) L1286041-10 11/24/20 17:08 • (DUP) R3597137-6 11/24/20 17:18											
	Original Result DUP Result Dilution DUP RPD <u>DUP Qualifier</u> DUP RPD (dry) (dry)										
Analyte	mg/kg	mg/kg		%		%					
Chloride	330	341	1	3.23		20	°Sc				

Laboratory Control Sample (LCS)

(LCS) R3597137-2 11/24/20	_CS) R3597137-2 11/24/20 12:42												
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier								
Analyte	mg/kg	mg/kg	%	%									
Chloride	200	209	105	90.0-110									

L1286037-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1286037-12 11/24/20	(OS) L1286037-12 11/24/20 13:58 • (MS) R3597137-4 11/24/20 14:07 • (MSD) R3597137-5 11/24/20 14:36												
Spike Amount Original Result MS Result (dry) MSD Result MS Rec. MSD Rec. Dilution Rec. Limits <u>MS Qualifier</u> MSD Qualifier RPD RPD Limits (dry) (dry)										RPD Limits			
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%	
Chloride	529	71.1	622	602	104	100	1	80.0-120			3.31	20	

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	ConocoPhillips - Tetra Tech	

PROJECT: 212C-MD-02334 TASK19

SDG: L1286041

DATE/TIME: 11/30/20 13:02

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Reg @ 4518 2 47 3/17/2023 11:08:45 AM

Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY L1286041-11,12,13,14

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Method Blank (MB)

(MB) R3598352-1 11/26/20 07:15									
	MB Result	MB Qualifier	MB MDL	MB RDL					
Analyte	mg/kg		mg/kg	mg/kg					
Chloride	U		9.20	20.0					

L1286041-12 Original Sample (OS) • Duplicate (DUP)

L1286041-12 Original Sample (OS) • Duplicate (DUP)												
(OS) L1286041-12 11/26/20 08:06 • (DUP) R3598352-3 11/26/20 08:23												
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits		⁵ Sr				
Analyte	mg/kg	mg/kg		%		%						
Chloride	163	162	1	0.224		20		⁶ Qc				

L1286608-02 Original Sample (OS) • Duplicate (DUP)

L1286608-02 Origi	.1286608-02 Original Sample (OS) • Duplicate (DUP)												
(OS) L1286608-02 11/26/2	(OS) L1286608-02 11/26/20 15:09 • (DUP) R3598352-6 11/26/20 15:26												
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	⁸ Al						
Analyte	mg/kg	mg/kg		%		%							
Chloride	U	U	1	0.000		20	°Sc						

Laboratory Control Sample (LCS)

.CS) R3598352-2 11/26/20 07:32										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier					
Analyte	mg/kg	mg/kg	%	%						
Chloride	200	205	103	90.0-110						

L1286599-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1286599-01 11/26/20	(OS) L1286599-01 11/26/20 11:29 • (MS) R3598352-4 11/26/20 11:46 • (MSD) R3598352-5 11/26/20 12:03												
Spike Amount Original Result MS Result (dry) MSD Result MS Rec. MSD Rec. Dilution Rec. Limits <u>MS Qualifier</u> MSD Qualifier RPD RPD Limits (dry) (dry)											RPD Limits		
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%	
Chloride	604	U	619	618	102	102	1	80.0-120			0.0952	20	

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	ConocoPhillips - Tetra Te	ech

PROJECT: 212C-MD-02334 TASK19

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

QUALITY CONTROL SUMMARY

ONE LAB. NAT Rage 54 of 101

¹Cn

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Method Blank (MB)

	~)					L'C			
(MB) R3596550-3 11/23/20 04:39									
	MB Result	MB Qualifier	MB MDL	MB RDL		2			
Analyte	mg/kg		mg/kg	mg/kg		Tc			
TPH (GC/FID) Low Fraction	U		0.0217	0.100					
(S) a,a,a-Trifluorotoluene(FID)	108			77.0-120		³ Ss			

Laboratory Control Sample (LCS)

(LCS) R3596550-2 11/23	.CS) R3596550-2 11/23/20 03:58											
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier							
Analyte	mg/kg	mg/kg	%	%								
TPH (GC/FID) Low Fraction	5.50	4.61	83.8	72.0-127								
(S) a.a.a.Trifluorotoluene(FID)			98.1	77.0-120								

L1286037-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1286037-16 11/23/20	OS) L1286037-16 11/23/20 06:28 • (MS) R3596550-6 11/23/20 13:46 • (MSD) R3596550-7 11/23/20 14:07													
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits		
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%		
TPH (GC/FID) Low Fraction	5.73	U	2.47	2.93	43.2	51.6	1.01	10.0-151			16.8	28		
(S) a.a.a-Trifluorotoluene(FID)					101	101		77.0-120						

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

QUALITY CONTROL SUMMARY 1286041-02,03,04,05,06,07,08,09,10,11,12,13,14

⁴Cn

Sr

Qc

GI

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Sc

Method Blank (MB)

)						
(MB) R3596927-2 11/24/20 05:02							
	MB Result	MB Qualifier	MB MDL	MB RDL		2	
Analyte	mg/kg		mg/kg	mg/kg		Tc	
TPH (GC/FID) Low Fraction	0.0304	J	0.0217	0.100			
(S) a,a,a-Trifluorotoluene(FID)	96.3			77.0-120		³Ss	

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

_CS) R3596927-1 11/24/20 04:21 • (LCSD) R3596927-3 11/24/20 13:52										
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	6.42	6.36	117	116	72.0-127			0.939	20
(S) a.a.a-Trifluorotoluene(FID)				114	113	77.0-120				

DATE/TIME: 11/30/20 13:02 PAGE: 27 of 34

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

QUALITY CONTROL SUMMARY L1286041-01,02,03,04,05,06,07,08,09,10,11,12,13,14

Method Blank (MB)

(MB) R3596257-3	11/22/20 14:17
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	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	112			75.0-131
(S) 4-Bromofluorobenzene	87.5			67.0-138
(S) 1,2-Dichloroethane-d4	101			70.0-130

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

.CS) R3596257-1 11/22/20 13:01 • (LCSD) R3596257-2 11/22/20 13:20											
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	[′] Gl
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%	
Benzene	0.125	0.139	0.134	111	107	70.0-123			3.66	20	⁸ 11
Ethylbenzene	0.125	0.133	0.137	106	110	74.0-126			2.96	20	A
Toluene	0.125	0.137	0.138	110	110	75.0-121			0.727	20	9
Xylenes, Total	0.375	0.403	0.384	107	102	72.0-127			4.83	20	Sc
(S) Toluene-d8				104	108	75.0-131					
(S) 4-Bromofluorobenzene				92.4	90.3	67.0-138					
(S) 1,2-Dichloroethane-d4				113	112	70.0-130					

Cp ²Tc ³Ss ⁴Cn ⁵Sr Semi-Volatile Organic Compounds (GC) by Method 8015

QUALITY CONTROL SUMMARY L1286041-01,02,03,04,05,06,07,08,09,10,11,12,13,14

⁺Cn

⁵Sr

[°]Qc

Gl

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Sc

Method Blank (MB)

(MB) R3597124-1 11/24/20 13:37							
	MB Result	MB Qualifier	MB MDL	MB RDL			
Analyte	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	U		1.61	4.00			
C28-C40 Oil Range	2.46	J	0.274	4.00			
(S) o-Terphenyl	86.2			18.0-148			

Laboratory Control Sample (LCS)

(LCS) R3597124-2 11/24/20 13:50								
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier			
Analyte	mg/kg	mg/kg	%	%				
C10-C28 Diesel Range	50.0	45.3	90.6	50.0-150				
(S) o-Terphenyl			107	18.0-148				

L1286041-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

JS) L1286041-01 11/24/20 17:36 • (MS) R3597124-3 11/24/20 17:49 • (MSD) R3597124-4 11/24/20 18:02												
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	51.6	34.1	67.9	69.0	65.4	67.6	1	50.0-150			1.70	20
(S) o-Terphenyl					73.2	88.5		18.0-148				

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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

(dn/)	Pacults are reported based on the dry weight of the sample. [this will only be present on a dry report basis for saile]
(ury)	Results are reported based on the dry weight of the sample, [this will only be present on a dry report basis for solis].
	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	
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

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

SDG: L1286041

Received by OCD: 4/17/2023 11:08:45 ACCREDITATIONS & LOCATIONS

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

State Accreditations

Alabama	40660
Alaska	17-026
Arizona	AZ0612
Arkansas	88-0469
California	2932
Colorado	TN00003
Connecticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia ¹	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
lowa	364
Kansas	E-10277
Kentucky ¹⁶	90010
Kentucky ²	16
Louisiana	AI30792
Louisiana ¹	LA180010
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086

Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey–NELAP	TN002
New Mexico ¹	n/a
New York	11742
North Carolina	Env375
North Carolina ¹	DW21704
North Carolina ³	41
North Dakota	R-140
Ohio-VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	LAO00356
South Carolina	84004
South Dakota	n/a
Tennessee ¹⁴	2006
Texas	T104704245-18-15
Texas ⁵	LAB0152
Utah	TN00003
Vermont	VT2006
Virginia	460132
Washington	C847
West Virginia	233
Wisconsin	9980939910
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.



Released to Imaging: 4/25/2023 10:09:56 AM ConocoPhillips - Tetra Tech PROJECT: 212C-MD-02334 TASK19

SDG: L1286041 DATE/TIME: 11/30/20 13:02 ²Tc ³Ss ⁴Cn ⁵Sr ⁶Qc ⁷Gl ⁸Al

Received by OCD: 4/17/2023 11:08:45 AM Analysis Request of Chain of Custody Record

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Client Name:	Conoco Phillips	Site Manag	er:	Ch	nristian	Llull			155 A.			2017	-			AN	ALY	SIS	RE	QUI	EST	_	-		_
Project Name:	Philmex Battery #3 Battery Bleeder Valve Release (1RP-1987)	Contact Info	0:	Er Ph	mail: ch none: (!	nristiar 512) 3	.llull(38-16	@tetrat 667	ech.co	m	1	I	(cle	or	Sp	eci	ify I	Met	tho		o.)	1	1
Project Location: (county, state)	Lea County, New Mexico	Project #:		212C-MD-02334, Task No. 19																					
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 797	01		1														1							
Receiving Laboratory:	Pace Analytical	Sampler Sig	gnature:	-	Joe T	yler	1					- MRO)	ing.	e Hg	ie Hg					-			ched list		
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-03	BH-1 (4'-5')	11/11/20	920		x	Ħ	x	172	1	N	x	X		-	-			+	H	-	Ŷ		+	\vdash	28
-04	BH-1 (6'-7')	11/11/20	930	Ħ	x	Ħ	x		1	N	x	X		+	+	+	122	10	H		Ŷ	-		H	-
-05	BH-1 (9'-10')	11/11/20	940		x	++	T _x		1	N	x	X		+	+	+	+	+	\vdash	- 96	Û				
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-07	BH-1 (19'-20')	11/11/20	1020		x		x		1	N	x	x		-		H		+		+	Û	-	+	\vdash	-
-08	BH-2 (0'-1')	11/11/20	1100		x	Ħ	X	++	1	N	x	x		+	+	+	-	+	+	+	Û	-	+	\vdash	-
-09	BH-2 (2'-3')	11/11/20	1110		x	$^{++}$	x		1	N	x	x					+	+		20	Î	+	+	\vdash	-
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Project Location: county, state)	Lea County, New Mexico	Project #:	212	212C-MD-02334, Task No. 19						1	14						14								
nvoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 7970	01						1		Albe		1												(lis	
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LAB # LAB USE ONLY	SAMPLE IDENTIFICATION	YEAR: 2020 DATE	TIME	NATER	SOIL	HCL	4NO ₃	CE	IONE	CONTAINE	ILTERED (Y	ITEX 8021B	PH TX1005 (1	AH 8270C	otal Metals Ag	CLP Metals A	CLP Semi Vol	CI CMS Vol 82	C/MS Semi. V	CB's 8082/6	ORM M (Ashestos)	hloride 300.0	hloride Sulfa	nion/Cation Ba	PH 8015R
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-13	BH-2 (14'-15')	11/11/20	1150		х			x		1	N	X	>	(60						X			\top
-14	BH-2 (19'-20')	11/11/20	1200		х			х		1	N	x	×	(_					×			
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Received by OCD: 4/17/2023 11:08:45 AM



ANALYTICAL REPORT

ConocoPhillips - Tetra Tech

Sample Delivery Group:

Samples Received:

Project Number:

Description:

L1293319 12/05/2020 212C-MD-02334 TASK19 Philmex Battery #3 Battery Bleeder Valve Release (1RP-1987) Christian Llull

Report To:

901 West Wall Suite 100 Midland, TX 79701

Entire Report Reviewed By:

Chu, toph

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.

Released to Imaging: 94/25/2023 10:09:56 AM ConocoPhillips - Tetra Tech PROJECT: 212C-MD-02334 TASK19 SDG: L1293319 DATE/TIME: 12/17/20 15:22

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SAMPLE SUMMARY

ONE LAB. NAT Rage 65 of 201

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AH-1 (BH-5) (0'-1') L1293319-01 Solid			Collected by Joe Tyler	Collected date/time 12/02/20 11:00	Received da 12/05/20 10:	te/time 00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
otal Solids by Method 2540 G-2011	WG1591752	1	12/16/20 05:00	12/16/20 05:07	KBC	Mt. Juliet, Ti
Vet Chemistry by Method 300.0	WG1591069	1	12/15/20 13:32	12/16/20 00:54	ELN	Mt. Juliet, TI
olatile Organic Compounds (GC) by Method 8015D/GRO	WG1590968	1	12/08/20 13:52	12/13/20 18:07	JHH	Mt. Juliet, TI
/olatile Organic Compounds (GC/MS) by Method 8260B	WG1588717	1	12/08/20 13:52	12/09/20 05:30	DWR	Mt. Juliet, Ti
emi-Volatile Organic Compounds (GC) by Method 8015	WG1591819	1	12/14/20 23:14	12/15/20 07:56	JN	Mt. Juliet, Ti
			Collected by	Collected date/time	Received da	te/time
AH-2 (BH-4) (0'-1') L1293319-02 Solid			Joe Tyler	12/02/20 11:30	12/05/20 10:	00
fethod	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
otal Solids by Method 2540 G-2011	WG1591752	1	12/16/20 05:00	12/16/20 05:07	KBC	Mt. Juliet, TI
/et Chemistry by Method 300.0	WG1591069	1	12/15/20 13:32	12/16/20 01:03	ELN	Mt. Juliet, TI
olatile Organic Compounds (GC) by Method 8015D/GRO	WG1591714	1	12/08/20 13:52	12/14/20 18:20	BMB	Mt. Juliet, T
olatile Organic Compounds (GC/MS) by Method 8260B	WG1588717	1	12/08/20 13:52	12/09/20 05:49	DWR	Mt. Juliet, TI
emi-Volatile Organic Compounds (GC) by Method 8015	WG1591819	1	12/14/20 23:14	12/16/20 21:10	TJD	Mt. Juliet, T
			Collected by	Collected date/time	Received da	te/time
AH-3 (BH-3) (0'-1') L1293319-03 Solid			Joe Tyler	12/02/20 12:00	12/05/20 10:	00
	Patch	Dilution	Prenaration	Apolycic	Applyct	Location
lethod	Datch	Dilution	reparation	AlldiySIS	Analyst	Location
			date/time	date/time	Andiyst	Location
otal Solids by Method 2540 G-2011	WG1591752	1	date/time 12/16/20 05:00	date/time 12/16/20 05:07	KBC	Mt. Juliet, T
tethod otal Solids by Method 2540 G-2011 /et Chemistry by Method 300.0	WG1591752 WG1591069	1 1	date/time 12/16/20 05:00 12/15/20 13:32	Allalysis date/time 12/16/20 05:07 12/16/20 01:13	KBC	Mt. Juliet, Ti Mt. Juliet, Ti
ethod otal Solids by Method 2540 G-2011 Vet Chemistry by Method 300.0 'olatile Organic Compounds (GC) by Method 8015D/GRO	WG1591752 WG1591069 WG1590968	1 1 1	date/time 12/16/20 05:00 12/15/20 13:32 12/08/20 13:52	date/time 12/16/20 05:07 12/16/20 01:13 12/13/20 18:49	KBC ELN JHH	Mt. Juliet, Th Mt. Juliet, Th Mt. Juliet, Th
Vethod Fotal Solids by Method 2540 G-2011 Vet Chemistry by Method 300.0 Volatile Organic Compounds (GC) by Method 8015D/GRO Volatile Organic Compounds (GC/MS) by Method 8260B Semi-Volatile Organic Compounds (GC) by Method 8015	WG1591752 WG1591069 WG1590968 WG1588717 WG1591819	1 1 1 1 1 1	date/time 12/16/20 05:00 12/15/20 13:32 12/08/20 13:52 12/08/20 13:52 12/14/20 23:14	Alfalysis date/time 12/16/20 05:07 12/16/20 01:13 12/13/20 18:49 12/09/20 06:08 12/15/20 07:30	KBC ELN JHH DWR JN	Mt. Juliet, TI Mt. Juliet, TI Mt. Juliet, TI Mt. Juliet, TI Mt. Juliet, TI
Total Solids by Method 2540 G-2011 Vet Chemistry by Method 300.0 /olatile Organic Compounds (GC) by Method 8015D/GRO /olatile Organic Compounds (GC/MS) by Method 8260B Semi-Volatile Organic Compounds (GC) by Method 8015	WG1591752 WG1591069 WG1590968 WG1588717 WG1591819	1 1 1 1 1 1	date/time 12/16/20 05:00 12/15/20 13:32 12/08/20 13:52 12/08/20 13:52 12/14/20 23:14	Alfalysis date/time 12/16/20 05:07 12/16/20 01:13 12/13/20 18:49 12/09/20 06:08 12/15/20 07:30	KBC ELN JHH DWR JN	Mt. Juliet, TI Mt. Juliet, TI Mt. Juliet, TI Mt. Juliet, TI Mt. Juliet, TI Mt. Juliet, TI
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AH-4 (BH-6) (O'-1') L1293319-04 Solid	WG1591752 WG1591069 WG1590968 WG1588717 WG1591819 Batch	1 1 1 1 1 1 Dilution	date/time 12/16/20 05:00 12/15/20 13:32 12/08/20 13:52 12/08/20 13:52 12/14/20 23:14 Collected by Joe Tyler Preparation	Analysis date/time 12/16/20 05:07 12/16/20 01:13 12/13/20 18:49 12/09/20 06:08 12/15/20 07:30 Collected date/time 12/02/20 12:30 Analysis	KBC ELN JHH DWR JN Received da 12/05/20 10: Analyst	Mt. Juliet, TI Mt. Juliet, TI Mt. Juliet, TI Mt. Juliet, TI Mt. Juliet, TI Mt. Juliet, TI te/time 00
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Alternod tethod tethod 2540 G-2011 Vet Chemistry by Method 300.0 lolatile Organic Compounds (GC) by Method 8015D/GRO lolatile Organic Compounds (GC) by Method 8260B emi-Volatile Organic Compounds (GC) by Method 8015 Alternol (O'-1') L1293319-04 Solid Alternol tethod tethod tethod tethod 300.0	Batch WG1591752 WG1591069 WG1590968 WG1588717 WG1591819 Batch WG1591752 WG1591069	Dilution 1 1 1 1 1 Dilution	date/time 12/16/20 05:00 12/15/20 13:32 12/08/20 13:52 12/08/20 13:52 12/14/20 23:14 Collected by Joe Tyler Preparation date/time 12/16/20 05:00 12/15/20 13:32	Analysis date/time 12/16/20 05:07 12/16/20 01:13 12/09/20 06:08 12/15/20 07:30 Collected date/time 12/02/20 12:30 Analysis date/time 12/16/20 05:07 12/16/20 02:32	KBC ELN JHH DWR JN Received da 12/05/20 10: Analyst KBC ELN	Mt. Juliet, TI Mt. Juliet, TI Mt. Juliet, TI Mt. Juliet, TI Mt. Juliet, TI te/time 00 Location Mt. Juliet, TI
Aethod Total Solids by Method 2540 G-2011 Vet Chemistry by Method 300.0 Volatile Organic Compounds (GC) by Method 8015D/GRO Volatile Organic Compounds (GC) by Method 8015 AH-4 (BH-6) (O'-1') L1293319-04 Solid Aethod Total Solids by Method 2540 G-2011 Vet Chemistry by Method 300.0 Volatile Organic Compounds (GC) by Method 8015D/GRO	Batch WG1591752 WG1591069 WG1590968 WG1588717 WG1591819 Batch WG1591752 WG1591069 WG1591069 WG1590968	Dilution 1 1 1 1 1 Dilution 1 1 1 1	date/time 12/16/20 05:00 12/15/20 13:32 12/08/20 13:52 12/08/20 13:52 12/14/20 23:14 Collected by Joe Tyler Preparation date/time 12/16/20 05:00 12/15/20 13:32 12/08/20 13:52	Analysis date/time 12/16/20 05:07 12/16/20 01:13 12/13/20 18:49 12/09/20 06:08 12/15/20 07:30 Collected date/time 12/02/20 12:30 Analysis date/time 12/16/20 05:07 12/16/20 02:32 12/13/20 19:10	KBC ELN JHH DWR JN Received da 12/05/20 10: Analyst KBC ELN JHH	Mt. Juliet, TI Mt. Juliet, TI Mt. Juliet, TI Mt. Juliet, TI Mt. Juliet, TI te/time 00 Location Mt. Juliet, TI Mt. Juliet, TI Mt. Juliet, TI
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PROJECT: 212C-MD-02334 TASK19

SDG: L1293319

DATE/TIME: 12/17/20 15:22 PAGE: 3 of 18

CASE NARRATIVE

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

Released to Imaging: #25/2023 10:09:56 AM ConocoPhillips - Tetra Tech PROJECT: 212C-MD-02334 TASK19

SDG: L1293319

DATE/TIME: 12/17/20 15:22

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch		-1
Analyte	%			date / time		2	_
Total Solids	98.8		1	12/16/2020 05:07	WG1591752		ſ

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.31	20.2	1	12/16/2020 00:54	WG1591069

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		[°] Q0
TPH (GC/FID) Low Fraction	U		0.0220	0.101	1	12/13/2020 18:07	WG1590968	
(S) a,a,a-Trifluorotoluene(FID)	106			77.0-120		12/13/2020 18:07	WG1590968	⁷ Gl

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000478	0.00102	1	12/09/2020 05:30	<u>WG1588717</u>
Toluene	U		0.00133	0.00512	1	12/09/2020 05:30	WG1588717
Ethylbenzene	U		0.000755	0.00256	1	12/09/2020 05:30	WG1588717
Total Xylenes	U		0.000901	0.00666	1	12/09/2020 05:30	WG1588717
(S) Toluene-d8	105			75.0-131		12/09/2020 05:30	WG1588717
(S) 4-Bromofluorobenzene	96.9			67.0-138		12/09/2020 05:30	WG1588717
(S) 1,2-Dichloroethane-d4	109			70.0-130		12/09/2020 05:30	WG1588717

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	18.4		1.63	4.05	1	12/15/2020 07:56	WG1591819
C28-C40 Oil Range	110		0.277	4.05	1	12/15/2020 07:56	WG1591819
(S) o-Terphenyl	63.4			18.0-148		12/15/2020 07:56	WG1591819

DATE/TIME: 12/17/20 15:22

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	C
Analyte	%			date / time		2
Total Solids	98.4		1	12/16/2020 05:07	WG1591752	T

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.35	20.3	1	12/16/2020 01:03	WG1591069

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		ľQ
TPH (GC/FID) Low Fraction	0.164	B	0.0221	0.102	1	12/14/2020 18:20	WG1591714	
(S) a,a,a-Trifluorotoluene(FID)	92.8			77.0-120		12/14/2020 18:20	<u>WG1591714</u>	⁷ Gl

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000482	0.00103	1	12/09/2020 05:49	WG1588717
Toluene	U		0.00134	0.00516	1	12/09/2020 05:49	WG1588717
Ethylbenzene	U		0.000761	0.00258	1	12/09/2020 05:49	WG1588717
Total Xylenes	U		0.000909	0.00671	1	12/09/2020 05:49	WG1588717
(S) Toluene-d8	107			75.0-131		12/09/2020 05:49	WG1588717
(S) 4-Bromofluorobenzene	96.6			67.0-138		12/09/2020 05:49	WG1588717
(S) 1,2-Dichloroethane-d4	108			70.0-130		12/09/2020 05:49	WG1588717

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.27	B	1.64	4.07	1	12/16/2020 21:10	WG1591819
C28-C40 Oil Range	14.8		0.279	4.07	1	12/16/2020 21:10	<u>WG1591819</u>
(S) o-Terphenyl	84.3			18.0-148		12/16/2020 21:10	WG1591819

DATE/TIME: 12/17/20 15:22

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	C
Analyte	%			date / time		2
Total Solids	97.7		1	12/16/2020 05:07	WG1591752	T

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	66.1		9.42	20.5	1	12/16/2020 01:13	WG1591069

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		ľQ
TPH (GC/FID) Low Fraction	0.143		0.0222	0.102	1	12/13/2020 18:49	WG1590968	
(S) a,a,a-Trifluorotoluene(FID)	106			77.0-120		12/13/2020 18:49	<u>WG1590968</u>	⁷ Gl

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000489	0.00105	1	12/09/2020 06:08	WG1588717
Toluene	U		0.00136	0.00524	1	12/09/2020 06:08	WG1588717
Ethylbenzene	U		0.000772	0.00262	1	12/09/2020 06:08	WG1588717
Total Xylenes	U		0.000922	0.00681	1	12/09/2020 06:08	WG1588717
(S) Toluene-d8	107			75.0-131		12/09/2020 06:08	WG1588717
(S) 4-Bromofluorobenzene	93.1			67.0-138		12/09/2020 06:08	WG1588717
(S) 1,2-Dichloroethane-d4	106			70.0-130		12/09/2020 06:08	WG1588717

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	6.75	B	1.65	4.09	1	12/15/2020 07:30	WG1591819
C28-C40 Oil Range	30.0		0.280	4.09	1	12/15/2020 07:30	<u>WG1591819</u>
(S) o-Terphenyl	75.3			18.0-148		12/15/2020 07:30	WG1591819

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	C
Analyte	%			date / time		2
Total Solids	99.3		1	12/16/2020 05:07	WG1591752	T

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	10.2	J	9.27	20.1	1	12/16/2020 02:32	WG1591069

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		ľQ(
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	12/13/2020 19:10	WG1590968	
(S) a,a,a-Trifluorotoluene(FID)	107			77.0-120		12/13/2020 19:10	WG1590968	⁷ GI

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000474	0.00101	1	12/09/2020 06:27	<u>WG1588717</u>
Toluene	U		0.00132	0.00507	1	12/09/2020 06:27	<u>WG1588717</u>
Ethylbenzene	U		0.000748	0.00254	1	12/09/2020 06:27	WG1588717
Total Xylenes	U		0.000893	0.00660	1	12/09/2020 06:27	<u>WG1588717</u>
(S) Toluene-d8	107			75.0-131		12/09/2020 06:27	<u>WG1588717</u>
(S) 4-Bromofluorobenzene	92.6			67.0-138		12/09/2020 06:27	<u>WG1588717</u>
(S) 1,2-Dichloroethane-d4	106			70.0-130		12/09/2020 06:27	WG1588717

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	17.7		1.62	4.03	1	12/15/2020 07:43	WG1591819
C28-C40 Oil Range	70.5		0.276	4.03	1	12/15/2020 07:43	<u>WG1591819</u>
(S) o-Terphenyl	64.4			18.0-148		12/15/2020 07:43	WG1591819

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Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY L1293319-01,02,03,04

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Method Blank (MB)

(MB) R3604193-1 12/16/20 05:07										
	MB Result	MB Qualifier	MB MDL	MB RDL	2					
Analyte	%		%	%	Tc	Гс				
Total Solids	0.000									
					³ Ss	Ss				

L1293318-02 Original Sample (OS) • Duplicate (DUP)

L1293318-02 Orig	_1293318-02 Original Sample (OS) • Duplicate (DUP)									
(OS) L1293318-02 12/16/20 05:07 • (DUP) R3604193-3 12/16/20 05:07										
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	⁵ Sr			
Analyte	%	%		%		%	5			
Total Solids	95.9	96.2	1	0.332		10	6			

Laboratory Control Sample (LCS)

(LCS) R3604193-2 12/16/	CS) R3604193-2 12/16/20 05:07							
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier			
Analyte	%	%	%	%				
Total Solids	50.0	50.0	100	85.0-115				

SDG: L1293319

DATE/TIME: 12/17/20 15:22

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Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY L1293319-01,02,03,04

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Method Blank (MB)

(MB) R3603970-1 12/15/20 23:47							
	MB Result	MB Qualifier	MB MDL	MB RDL			
Analyte	mg/kg		mg/kg	mg/kg			
Chloride	U		9.20	20.0			

L1293317-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1293317-01 12/16/20 00:35 • (DUP) R3603970-5 12/16/20 00:44									
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits			
Analyte	mg/kg	mg/kg		%		%			
Chloride	U	U	1	0.000		20			

L1293361-02 Original Sample (OS) • Duplicate (DUP)

L1293361-02 Original Sample (OS) • Duplicate (DUP)										
(OS) L1293361-02 12/16/20 04:25 • (DUP) R3603970-6 12/16/20 04:35										
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits		⁸ Al		
Analyte	mg/kg	mg/kg		%		%				
Chloride	U	U	1	0.000		20		⁹ Sc		

Laboratory Control Sample (LCS)

(LCS) R3603970-2 12/15/2	LS) R3603970-2 12/15/20 23:57							
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier			
Analyte	mg/kg	mg/kg	%	%				
Chloride	200	199	99.5	90.0-110				

L1293307-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1293307-01 12/16/20 00:06 • (MS) R3603970-3 12/16/20 00:16 • (MSD) R3603970-4 12/16/20 00:25												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	500	U	463	470	92.7	93.9	1	80.0-120			1.35	20

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PROJECT: 212C-MD-02334 TASK19

SDG: L1293319

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

QUALITY CONTROL SUMMARY

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Method Blank (MB)

	·)				Cn
(MB) R3603303-2 12/13/2	20 14:11				Cp
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/kg		mg/kg	mg/kg	Tc
TPH (GC/FID) Low Fraction	U		0.0217	0.100	
(S) a,a,a-Trifluorotoluene(FID)	110			77.0-120	³ Ss

Laboratory Control Sample (LCS)

(LCS) R3603303-1 12/13/2	20 13:30				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	5.49	99.8	72.0-127	
(S) a.a.a.Trifluorotoluene(FID)			105	77.0-120	

L1293318-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

OS) L1293318-02 12/13/20 17:05 • (MS) R3603303-3 12/13/20 23:21 • (MSD) R3603303-4 12/13/20 23:42												
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
TPH (GC/FID) Low Fraction	5.68	0.0250	1.78	2.03	30.9	35.0	1	10.0-151			13.1	28
(S) a.a.a-Trifluorotoluene(FID)					102	100		77.0-120				

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

QUALITY CONTROL SUMMARY

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Method Blank (MB)

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(MB) R3603364-2 12/14/2	20 17:20				Cp
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/kg		mg/kg	mg/kg	Tc
TPH (GC/FID) Low Fraction	0.0864	J	0.0217	0.100	
(S) a,a,a-Trifluorotoluene(FID)	96.3			77.0-120	³ Ss

Laboratory Control Sample (LCS)

(LCS) R3603364-1 12/14/2	20 15:40				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	5.04	91.6	72.0-127	
(S) a.a.a.Trifluorotoluene(FID)			104	77.0-120	

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

QUALITY CONTROL SUMMARY

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Method Blank (MB)

(MB) R3601820-3 12/09/2	0 03:10						
	MB Result	MB Qualifier	MB MDL	MB RDL			
Analyte	mg/kg		mg/kg	mg/kg			
Benzene	U		0.000467	0.00100			
Ethylbenzene	U		0.000737	0.00250			
Toluene	U		0.00130	0.00500			
Xylenes, Total	U		0.000880	0.00650			
(S) Toluene-d8	105			75.0-131			
(S) 4-Bromofluorobenzene	99.9			67.0-138			
(S) 1,2-Dichloroethane-d4	113			70.0-130			

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

(LCS) R3601820-1 12/09/2	0 01:35 • (LCSE) R3601820-2	12/09/20 01:5	5								_
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits		GI
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%	l	
Benzene	0.125	0.145	0.135	116	108	70.0-123			7.14	20		8
Ethylbenzene	0.125	0.132	0.129	106	103	74.0-126			2.30	20		A
Toluene	0.125	0.132	0.123	106	98.4	75.0-121			7.06	20	ſ	Q
Xylenes, Total	0.375	0.395	0.383	105	102	72.0-127			3.08	20		Sc
(S) Toluene-d8				101	100	75.0-131					l	
(S) 4-Bromofluorobenzene				98.0	103	67.0-138						
(S) 1,2-Dichloroethane-d4				120	118	70.0-130						

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PAGE: 13 of 18 Semi-Volatile Organic Compounds (GC) by Method 8015

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Method Blank (MB)

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(MB) R3603881-1 12/15/	/20 04:51							Ср
	MB Result	MB Qualifier	MB MDL	MB RDL			-	2
Analyte	mg/kg		mg/kg	mg/kg				Tc
C10-C28 Diesel Range	1.65	J	1.61	4.00			L	
C28-C40 Oil Range	0.338	J	0.274	4.00			:	³ Ss
(S) o-Terphenyl	75.2			18.0-148				00
							F	4
								Cn

Laboratory Control Sample (LCS)

(LCS) R3603881-2 12/1	5/20 05:04				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	43.9	87.8	50.0-150	
(S) o-Terphenyl			95.9	18.0-148	

L1293318-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

DS) L1293318-04 12/15/20 05:17 • (MS) R3603881-3 12/15/20 05:31 • (MSD) R3603881-4 12/15/20 05:44												
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	50.7	U	41.8	41.6	82.6	82.2	1	50.0-150			0.485	20
(S) o-Terphenyl					86.5	85.7		18.0-148				

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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

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

PROJECT: 212C-MD-02334 TASK19

SDG: L1293319 DATE/TIME: 12/17/20 15:22

Received by OCD: 4/17/2023 11:08:45 ACCREDITATIONS & LOCATIONS

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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
Alaska	17-026
Arizona	AZ0612
Arkansas	88-0469
California	2932
Colorado	TN00003
Connecticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia ¹	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
lowa	364
Kansas	E-10277
Kentucky ¹⁶	KY90010
Kentucky ²	16
Louisiana	AI30792
Louisiana ¹	LA180010
Maine	TN00003
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086

Nebraska	NE-OS-15-05
Nevada	TN000032021-1
New Hampshire	2975
New Jersey–NELAP	TN002
New Mexico ¹	TN00003
New York	11742
North Carolina	Env375
North Carolina ¹	DW21704
North Carolina ³	41
North Dakota	R-140
Ohio-VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	LAO00356
South Carolina	84004
South Dakota	n/a
Tennessee ¹⁴	2006
Texas	T104704245-20-18
Texas ⁵	LAB0152
Utah	TN00003
Vermont	VT2006
Virginia	460132
Washington	C847
West Virginia	233
Wisconsin	998093910
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.



Released to Imaging: 4/25/2023 10:09:56 AM ConocoPhillips - Tetra Tech PROJECT: 212C-MD-02334 TASK19

SDG: L1293319 DATE/TIME: 12/17/20 15:22

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APPENDIX E NMSLO Seed Mixture Details



USDA United States Department of Agriculture

> 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**

1RP-1987



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.

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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 classes 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.

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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.

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	MAP L	EGEND		MAP INFORMATION
Area of Int Soils Soils Special Special S Secial S Secial S S S S S S S S S S S S S S S S S S S	Image: Calcip and a constraint of a constraint	EGEND	Spoil Area Stony Spot Very Stony Spot Wet Spot Other Special Line Features tures Streams and Canals ation Rails Interstate Highways US Routes Major Roads Local Roads	<section-header><section-header><text><text><text><text><text><text></text></text></text></text></text></text></section-header></section-header>
4 ≪ ◎ ◎ > + :: 4 ◆ ◇ ⊗	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		Aerial Photography	 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

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
КО	Kimbrough gravelly loam, dry, 0 to 3 percent slopes	1.7	75.4%
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	0.6	24.6%
Totals for Area of Interest		2.3	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

onsite investigation is needed to define and locate the soils and miscellaneous areas.

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

KO—Kimbrough gravelly loam, dry, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw43 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, dry, and similar soils: 80 percent *Minor components:* 20 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Kimbrough, Dry

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

Minor Components

Eunice

Percent of map unit: 10 percent Landform: Plains Down-slope shape: Linear Across-slope shape: Convex Ecological site: R077DY049TX - Very Shallow 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 Hydric soil rating: No

Kenhill

Percent of map unit: 4 percent Landform: Plains Down-slope shape: Linear Across-slope shape: Linear Ecological site: R077DY038TX - Clay Loam 12-17" PZ Hydric soil rating: No

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

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NMSLO Seed Mix

Loamy (L)

LOAMY (L) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX	
Grasses:				
Black grama	VNS, Southern	1.0	D	
Blue grama	Lovington	1.0	D	
Sideoats grama	Vaughn, El Reno	4.0	F	
Sand dropseed	VNS, Southern	2.0	S	
Alkali sacaton	VNS, Southern	1.0		
Little bluestem	Cimarron, Pastura	1.5	F	
ALL A		DOM	L	
Forbs:			2	
Firewheel (Gaillardia)	VNS, Southern	1.0	D	
	0		B	
Shrubs:		0.7	B	
Fourwing saltbush	Marana. Santa Rita	1.0	D	
Common winterfat	VNS. Southern	0.5	F	
			B	
Total PLS/acre 18.0				

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at http://plants.usda.gov.



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

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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

Operator:	OGRID:
Maverick Permian LLC	331199
1111 Bagby Street Suite 1600	Action Number:
Houston, TX 77002	208287
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date		
jharimon	Workplan/Remediation Plan is approved with the following conditions: • Please make sure the floor confirmation samples are delineated/excavated to meet closure criteria standards for proven depth to water determination. • When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less.	4/25/2023		
jharimon	• Sidewall samples should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. • The request for variance for an alternative confirmation sampling plan is approved with conditions. Confirmation sidewall and floor samples will be representative of no more than approximately 400 square ft of excavated area.	4/25/2023		

Action 208287