

Sam Widmer ConocoPhillips SP2 925 North Eldridge Parkway Houston, TX 77079 +1-281-206-5298

September 1, 2021

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

Subject: Vacuum Abo Unit 13-3 Flowline Release Unit Letter L 3, Section 4, Township 18 South, Range 35 East Lea County, New Mexico 1RP-1409 Incident ID nPAC0716533924

Sir or Madam:

ConocoPhillips entered into an Agreed Compliance Order (ACO) with the NMOCD on May 9, 2019 related to unresolved releases pursuant to 19.15.29.16(9) NMAC. The ACO required COPC to submit characterization and/or remediation plans with proposed timeframes for the ongoing corrective actions or remediations identified to the NMOCD no later than September 1, 2021.

As of April 19, 2021, COPC has submitted characterization and remediation plans for all of the properties identified and owned; for sites not owned, Asset Sold Letters have been submitted. These documents have been submitted to the NMOCD via CentreStack, a Secure Access & File Sharing platform, at the direction of Mr. Bradford Billings, Hydrologist, NMCOD.

Enclosed is a copy of the Release Characterization and Remediation Work Plan for the subject line incident. This Work Plan has been previously submitted in its entirety via the CentreStack platform. It is now duly submitted separately via the NMOCD Fee Application portal.

If you have any questions, please contact me at 281-206-5298.

Sincerely,

San Widner

Sam A. Widmer Program Manager – RMR

cc: Site Files

Attachments: Release Characterization and Remediation Work Plan, Vacuum Abo Unit 13-3 Flowline Release, Incident ID nPAC0716533924



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 Vacuum Abo Unit 13-3 Flowline Release Unit Letter L 3, Section 4, Township 18 South, Range 35 East Lea County, New Mexico 1RP-1409 Incident ID nPAC0716533924

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to assess a historical release that occurred from a flowline associated with the Vacuum Abo Unit 13-3 well (API No. 30-025-03045). The release footprint is located approximately 2,200 feet (ft) west-northwest of the wellhead in Public Land Survey System (PLSS) Unit Letter L 3, Section 4, Township 18 South, Range 35 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.780614°, -103.463791°, 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 May 31, 2007. The release occurred as the result of external erosion to a 2 ⁷/₈-inch flowline and encompassed an area of 23,906 square ft (SF). The release consisted of approximately 33 barrels (bbls) of produced water and 7 bbls of oil. During immediate response actions, 10 bbls of produced water and 2 bbls of oil were recovered. The New Mexico Oil Conservation District (NMOCD) received the C-141 report form for the release on June 4, 2007 and subsequently assigned the release the Remediation Permit (RP) number 1RP-1409. The Incident ID for the release is nPAC0716533924. The 1RP-1409 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 three (3) water wells within 800 meters (approximately $\frac{1}{2}$ mile) of the Site. The average depth to groundwater is 60 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	10,000 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
TPH	100 mg/kg
BTEX	50 mg/kg

SITE ASSESSMENT

A desktop review of available historical aerial imagery revealed evidence of a release extent and apparent remedial activities in the vicinity of the reported GPS coordinates from the C-141. During a visual Site inspection conducted by Tetra Tech in June 2020, surface areas in the pasture were observed to have been partially excavated or scraped, and partial vegetative cover was observed in the observed release footprint. Photographic documentation of the visual Site inspection is included as Appendix C.

Tetra Tech personnel were on site on behalf of COP in November and December 2020 to conduct soil sampling to complete vertical and horizontal delineation of the observed release extent. Three (3) borings (BH-1 through BH-3) were installed using an air rotary drilling rig to depths of 20 ft bgs within the interior of the release extent to achieve vertical delineation. Four (4) borings (BH-4 through BH-7) were installed with the air rotary drilling rig along the perimeter of the release extent to a depth of 4 ft bgs. Additionally, one (1) hand auger boring (AH-1) was advanced along the perimeter of the release to a depth of 1 ft bgs to complete horizontal delineation of the release. Soils at the Site consist of approximately 1.5 ft of brown silty clay underlain by a caliche cap rock. 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 thirty (30) samples were collected from the seven (7) borings (BH-1 through BH-6, and AH-1) 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 location BH-2 exceeded the chloride Site reclamation RRAL of 600 mg/kg in the 2-3 ft sample interval. There were no other analytical results which exceeded the chloride reclamation RRAL (600 mg/kg) during the additional assessment. In addition, the analytical results

Release Characterization and Remediation Work Plan February 8, 2021

associated with the BH-2 sample location exceeded the Site TPH reclamation RRAL of 100 mg/kg in the top 3 ft of soil. The analytical results associated with the remainder of the samples analyzed were below the BTEX and TPH Site reclamation RRALs of 50 mg/kg and 100 mg/kg, respectively. Vertical and horizontal delineation was achieved during the November and December 2020 sampling event.

REMEDIATION WORK PLAN

Based on the analytical results, ConocoPhillips proposes to remove the remaining impacted material in the area around sample location BH-2, 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 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 2,500 cubic yards.

ALTERNATIVE CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, ConocoPhillips proposes the following alternative confirmation sampling plan to adhere with NMOCD requirements. The proposed confirmation sample locations are depicted in Figure 5. Thirty-two (32) confirmation floor samples and twenty-four (24) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 16,830 SF.

These confirmation sidewall and floor samples will be representative of no more than approximately 500 SF of excavated area. Confirmation samples will be sent to an accredited laboratory 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 Vacuum Abo Unit 13-3 Flowline Release (1RP-1409) 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.

Release Characterization and Remediation Work Plan February 8, 2021

ConocoPhillips

If you have any questions concerning the soil assessment or the 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 Location 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

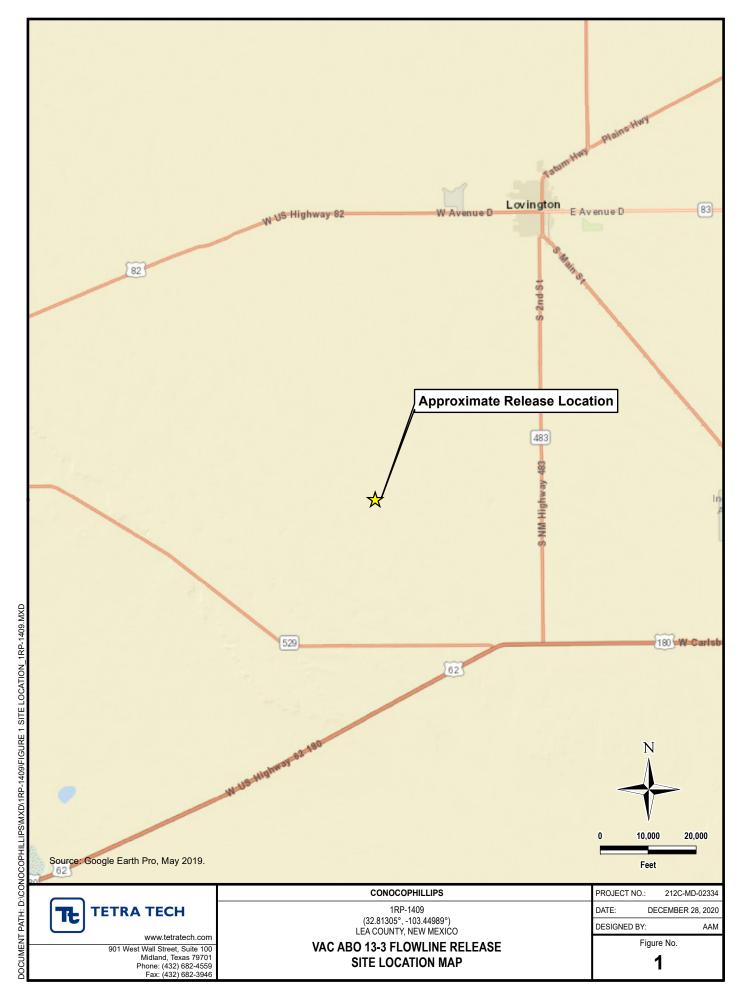
Appendix C – Photographic Documentation

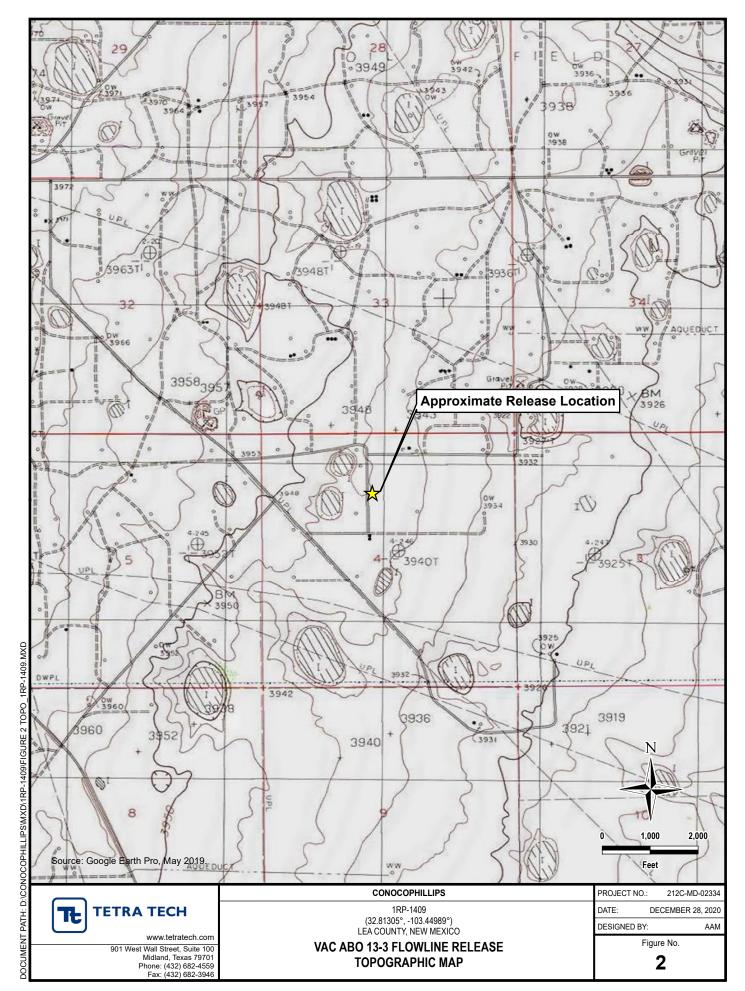
Appendix D – Laboratory Analytical Data

Appendix E – NMSLO Seed Mixture Details

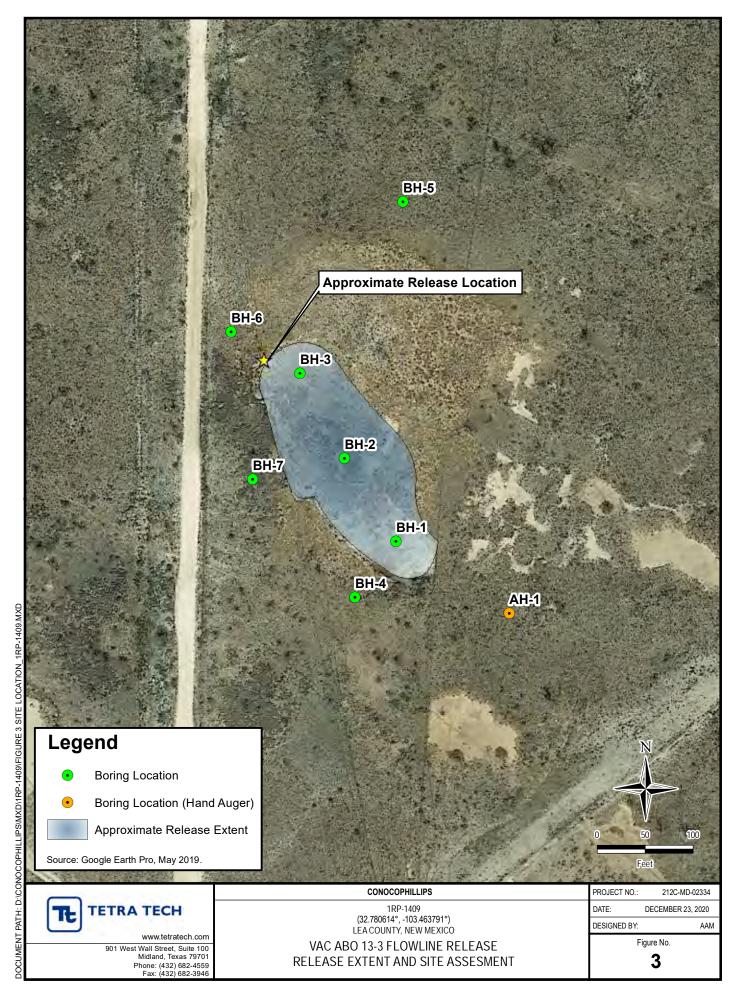
ConocoPhillips

FIGURES

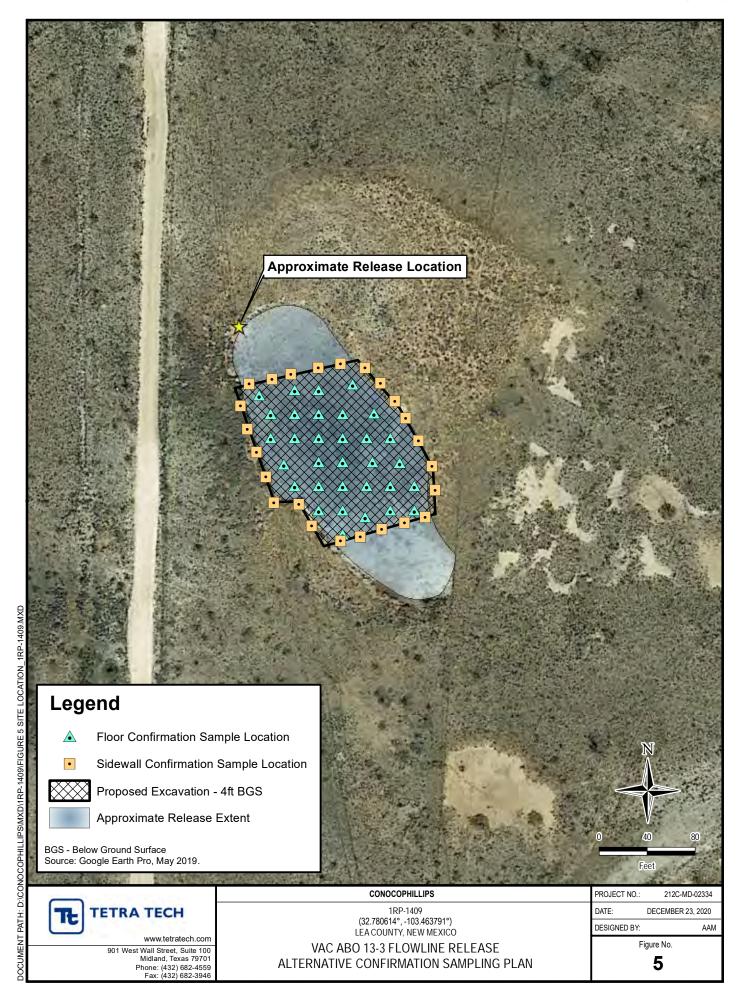




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TABLES

TABLE 1 BORING LOCACTION COORDINATES SOIL ASSESSMENT - 1RP-1409 CONOCOPHILLIPS VAC ABO 13-3 RELEASE LEA COUNTY, NM

Boring ID	Latitude	Longitude
AH-1	32.779881	-103.462966
BH-1	32.780090	-103.463347
BH-2	32.780329	-103.463520
BH-3	32.780573	-103.463669
BH-4	32.779931	-103.463489
BH-5	32.781060	-103.463314
BH-6	32.780693	-103.463901
BH-7	32.780270	-103.463832

TABLE 2 SUMMARY OF ANALYTICAL RESULTS SOIL ASSESSMENT - 1RP-1409 CONOCOPHILLIPS VAC ABO 13-3 RELEASE LEA COUNTY, NM

											BTEX ²								TPH	3		
Comple ID	Comple Date	Sample Depth Interval	Field Screer	ning Results	Chloride ¹		Bonzono		Taluana		Ethulhonson		Total Vulanas	_		GRO ⁴		DRO		ORO		Total TPH
Sample ID	Sample Date	interval	Chloride	PID			Benzene		Toluene		Ethylbenzene	2	Total Xylenes		Total BTEX	C ₃ - C ₁₀		C ₁₀ - C ₂₈		C ₂₈ - C ₄₀		(GRO+DRO+ORO)
		ft. bgs	рр	om	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	-	-	< 20.7		< 0.00107		< 0.00537		< 0.00269		< 0.00698		-	0.0228	ВJ	< 4.15		0.684	J	0.707
		2-3	-	-	< 20.9		< 0.00109		< 0.00543		< 0.00271		< 0.00705		-	0.0237	ВJ	< 4.17		0.611	J	0.635
		4-5	-	-	28.1		< 0.00113		< 0.00565		< 0.00283		< 0.00735		-	< 0.107		< 4.26		0.647	J	0.647
BH-1	11/17/2020	6-7	-	-	65.9		< 0.00111		< 0.00557		< 0.00279		< 0.00724		-	0.0295	ΒJ	< 4.23		0.457	J	0.487
		9-10	-	-	254		< 0.00121		< 0.00607		< 0.00303		< 0.00789		-	0.0270	ΒJ	< 4.43		< 4.43		0.0270
		14-15	-	-	61.5		< 0.00115		< 0.00577		< 0.00288		< 0.00750		-	0.0276	ВJ	< 4.31		0.437	J	0.465
		19-20	86.1	0.1	60.6		< 0.00118		< 0.00592		< 0.00296		< 0.00770		-	0.0268	ΒJ	< 4.37		< 4.37		0.0268
		0-1	-	-	187		< 0.00104		< 0.00521		< 0.00261		< 0.00678		-	0.0275	ΒJ	34.7		108		143
		2-3	-	-	605		< 0.00111		< 0.00557		< 0.00278		< 0.00724		-	0.0310	ΒJ	38.3		118		156
		4-5	-	-	344		< 0.00107		< 0.00534		< 0.00267		< 0.00694		-	0.0310	ВJ	17.1		55.6		72.7
BH-2	11/17/2020	6-7	-	-	501		< 0.00112		< 0.00561		< 0.00281		< 0.00730		-	0.0310	ΒJ	< 4.24		< 4.24		0.0310
		9-10	-	-	104		< 0.00116		< 0.00581		< 0.00291		< 0.00755		-	0.0299	ВJ	< 4.32		0.476	J	0.506
		14-15	-	-	45.3		< 0.00117		< 0.00584		< 0.00292		< 0.00759		-	0.0285	ВJ	< 4.33		0.926	J	0.955
		19-20	65.1	0.3	55.3		< 0.00108		< 0.00538		< 0.00269		< 0.00699		-	0.0244	ВJ	< 4.15		3.44	J	3.46
		0-1	-	-	71.8		< 0.00108		< 0.00539		< 0.00270		< 0.00701		-	0.0265	ВJ	6.10		21.0		27.1
		2-3	-	-	85.7		< 0.00104		< 0.00522		< 0.00261		< 0.00678		-	0.0290	ВJ	< 4.09		2.97	J	3.00
		4-5	-	-	403		< 0.00111		< 0.00557		< 0.00278		< 0.00724		-	0.0929	ВJ	< 4.23		0.753	J	0.846
BH-3	11/17/2020	6-7	-	-	54.1		< 0.00120		< 0.00599		< 0.00299		< 0.00778		-	0.104	ΒJ	< 4.39		0.500	J	0.604
		9-10	-	-	43.4		< 0.00112		< 0.00561		< 0.00281		< 0.00730		-	0.0791	ΒJ	< 4.24		0.491	J	0.570
		14-15	-	-	22.4		< 0.00107		< 0.00534		< 0.00267		< 0.00694		-	0.148	В	< 4.14		0.562	J	0.710
		19-20	98.1	0.4	70.4		< 0.00101		< 0.00506		< 0.00253		< 0.00658		-	0.102	В	< 4.02		< 4.02		0.102
		0-1	120	0.8	< 21.4		< 0.00114		< 0.00569		< 0.00285		< 0.00740		-	0.124	В	3.38	J	8.47		12.0
BH-4	11/17/2020	3-4	51.2	0.2	10.7	J	< 0.00112		< 0.00560		< 0.00280		< 0.00728		-	0.167	В	5.70		9.00		14.9
		0-1	113	0.3	< 20.6		< 0.00106		< 0.00529		< 0.00264		< 0.00687		_	0.135	В	2.75		11.8		14.7
BH-5	11/17/2020	3-4	98.1	0.0	< 20.7		< 0.00107		< 0.00535		< 0.00267		< 0.00695			0.236	В	< 4.14		1.16	-	1.40
			I																			
BH-6	11/17/2020	0-1	160	0.4	< 20.4		< 0.00104		< 0.00518	+ +	< 0.00259		< 0.00674		-	0.104	B	6.44	+ +	21.5		28.0
		3-4	109	0.1	14.7	IJ	< 0.00104		< 0.00520		< 0.00260		< 0.00676		-	0.0433	ВJ	< 4.08		5.94		5.98
BH-7	11/17/2020	0-1	101	0.1	< 20.5		< 0.00105		< 0.00526		< 0.00263		< 0.00683		-	0.110	В	< 4.10	\downarrow \downarrow	5.20		5.31
	, , ,	3-4	56.3	0.1	< 21.4		< 0.00114		< 0.00571		< 0.00285		< 0.00742		-	0.382	В	< 4.28		1.19	J	1.57
AH-1	12/2/2020	0-1	-	-	< 20.4		0.000495	J	< 0.00521		< 0.00260		0.00156	J	0.00206	< 0.102		3.35	ВJ	17.5		20.9

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

	Dr., Hobbs, 1	NM 88240		St	ate o	f New Mex	ico PResources ision Rece ts Dr. Hob	• 10		Form C-14
<u>pistrict II</u>						s and Natura	Resources	1.1 T	5	Revised October 10, 200
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Type of Rele Crude Oil		uced Water				lume of Releas bbl (70il, 33wa			Volume R (2oil, 10w	
Source of Re		ittu water				te and Hour of				Hour of Discovery
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By Whom?			· <u> </u>	· · · · · · · · · · · · · · · · · · ·		te and Hour 6	4-2007 13:05			· · · · · · · · · · · · · · · · · · ·
Was a Water		ched?	Yes 🗵	No	If Y N/		npacting the Wa	tercourse	ð.	
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	esulted fro	em and Reme om external			el flow	vline. The MS	SO shut in the	well an	d called a	vacuum truck to pick up
	5' area of				e pres	ent. The spill	site will be de	lineate	d and rem	ediated in accordance wit
A 135' X 7 NMOCD g	Il operators	are required t	o report a	nd/or file certain r ce of a C-141 repo	elease ort by t	notifications a the NMOCD m	nd perform corre arked as "Final F	ctive act Report" d reat to g	ions for rele loes not reli round water	uant to NMOCD rules and cases which may endanger eve the operator of liability , surface water, human health
NMOCD g I hereby cert regulations a public health should their or the enviro	operations h nment. In a	nave failed to a	CD accep		report			respons		ompliance with any other
NMOCD g I hereby cert regulations a public health should their or the enviro	operations h nment. In a	have failed to a addition, NMC	CD accep		report		e the operator of	-		ompliance with any other <u>DIVISION</u>
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Received by OCD: 9/2/2021 11:22:10 AM Form C-141 State of New Mexico

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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Site Assessment/Characterization

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

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

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

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

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

Laboratory data including chain of custody

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

•

Received by OCD: 9/2/2021 11	:22:10 AM State of New Mexico			Page 19 of 125
			Incident ID	
Page 4	Oil Conservation Division		District RP	
			Facility ID	
			Application ID	
regulations all operators are requ public health or the environment. failed to adequately investigate a addition, OCD acceptance of a C and/or regulations. Printed Name:	tion given above is true and complete to the ired to report and/or file certain release no The acceptance of a C-141 report by the nd remediate contamination that pose a the -141 report does not relieve the operator o uais 99	tifications and perform c OCD does not relieve th reat to groundwater, surfa f responsibility for comp Title: Date:	orrective actions for rele e operator of liability sh ace water, human health liance with any other fe	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only				
Received by:		Date:		

Received by OCD: 9/2/2021 11:22:10 AM Form C-141 State of New Mexico

Page 5

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	

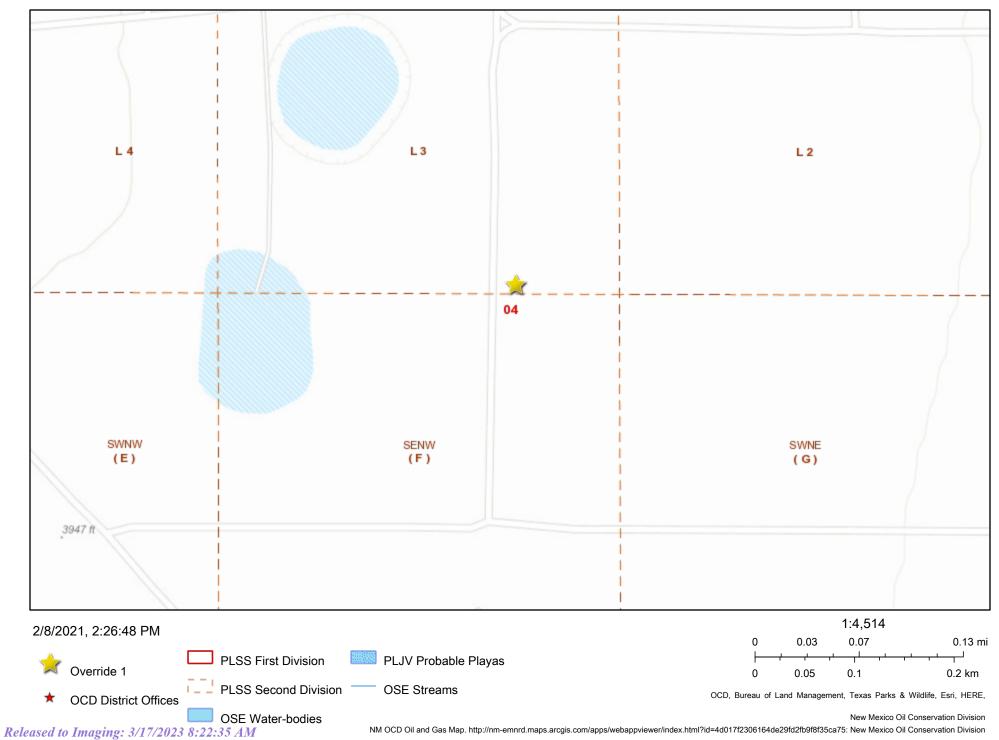
Remediation Plan

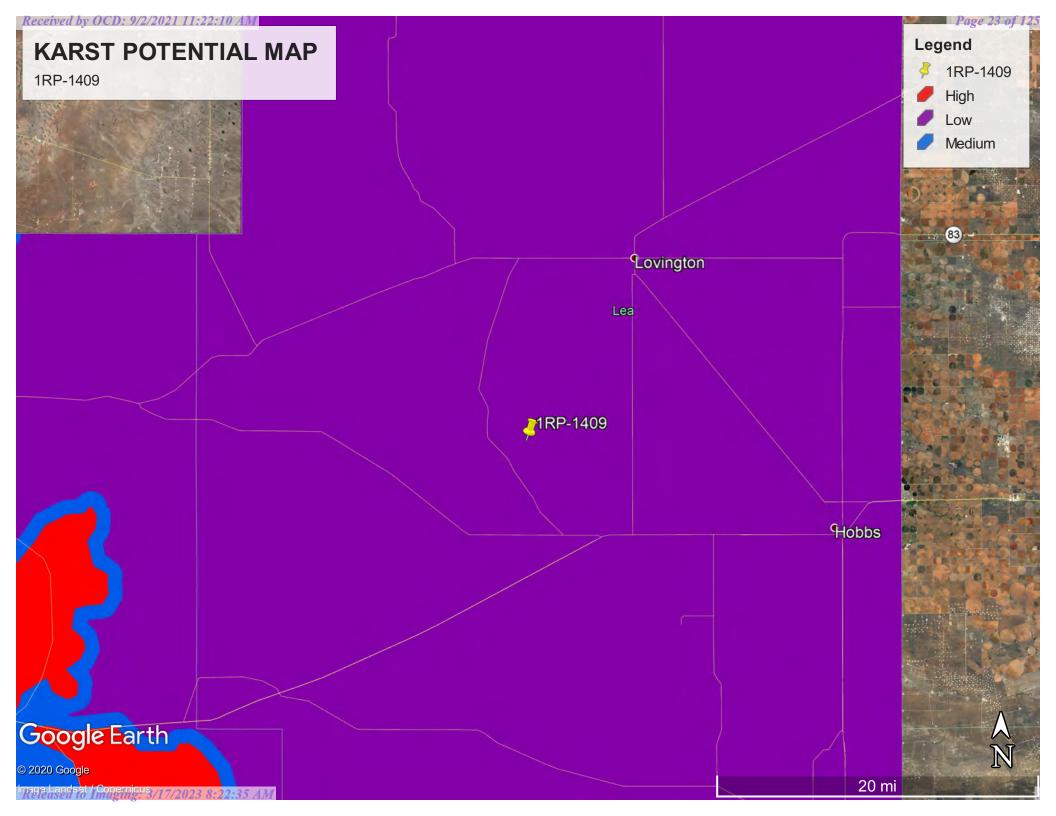
Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Title: Signature: Charles R. Beauvais 99 Date: Telephone: _____ email: OCD Only Received by: Date: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Ashley Maxwell Signature: Date:

> Sampling variance denied. Approved to sample every 500 square feet on sidewalls and base.

APPENDIX B Site Characterization Data

1RP-1409

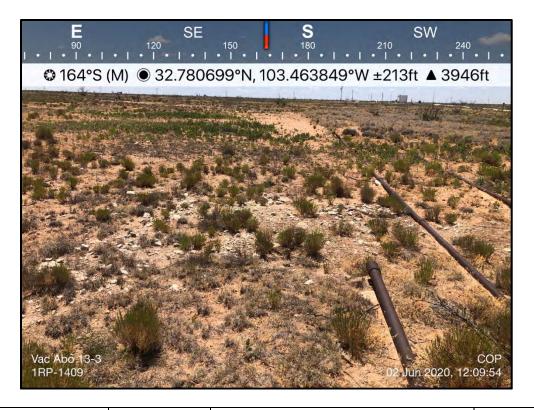




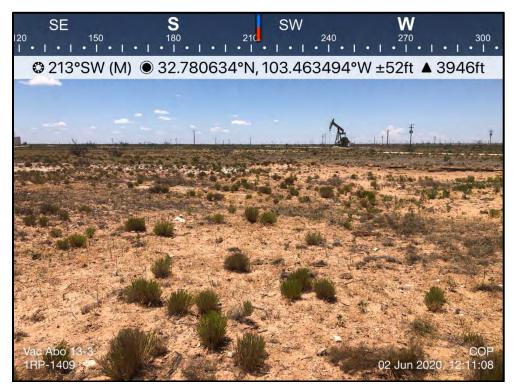
(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POE been re O=orpha	placed,		,											
	C=the fi closed)	le is		Ì		ters			W 2=N		·=SE) IAD83 UTM in⊣	meters)	(In fe	oot)	
		POD			•	,				(IV		licitorsy	(11110	,	
POD Number 04631_	Code	Sub- basin L	County LE	64		4 S			Rng 35E	X 643465	Y 3628292* 🧲	DistanceDe	epthWellDept 140		ater/ ater/ 8 8
<u>04586</u>		L	LE	3	3 4	43	33	17S	35E	644065	3628502*	518	125	50	7
_ 04498		L	LE		3	1 0)4	18S	35E	643373	3627790* 🧧	566	128	70	5
											Ave	rage Depth to V	Water:	60 fe	et
												Minimum D	epth:	50 fe	et
												Maximum D	epth:	70 fe	et
Record 3 Count: UTMNAD83 Radiu	us Search	<u>(in met</u>	<u>ers):</u>												

WATER

APPENDIX C Photographic Documentation



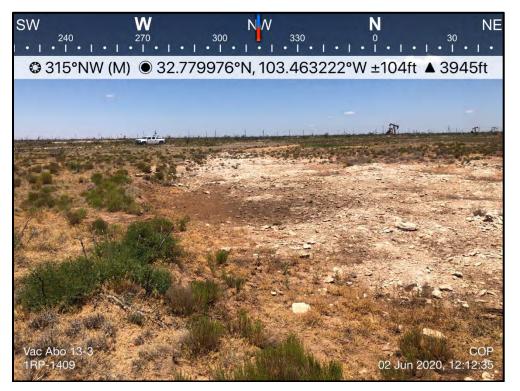
TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing south of flowline release area.	1
212C-MD-02152	SITE NAME	Vac Abo 13-3 Flowline Release	6/2/2020



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing southwest of flowline release area.	2
212C-MD-02152	SITE NAME	Vac Abo 13-3 Flowline Release	6/2/2020



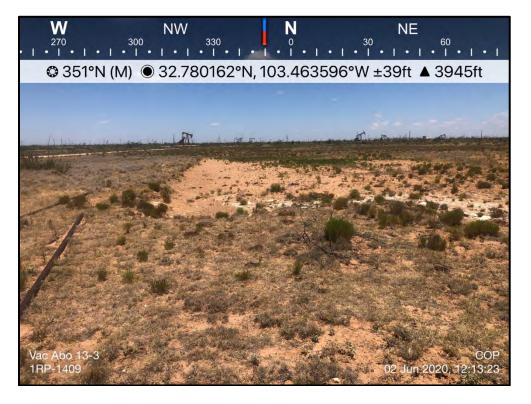
TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing west of flowline release area.	3
212C-MD-02152	SITE NAME	Vac Abo 13-3 Flowline Release	6/2/2020



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing northwest of flowline release area.	4
212C-MD-02152	SITE NAME	Vac Abo 13-3 Flowline Release	6/2/2020



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing east of flowline release area.	5
212C-MD-02152	SITE NAME	Vac Abo 13-3 Flowline Release	6/2/2020



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing northwest of flowline release area.	6
212C-MD-02152	SITE NAME	Vac Abo 13-3 Flowline Release	6/2/2020

APPENDIX D Laboratory Analytical Data



ANALYTICAL REPORT

ConocoPhillips - Tetra Tech

Sample Delivery Group: Samples Received: Project Number: Description:

Report To:

L1289013 11/21/2020 212C-MD-02334 Vac Abo 13-3 Release (1RP-1409)

Christian Llull 901 West Wall Suite 100 Midland, TX 79701

Ср Тс Ss Cn Sr ʹQc Gl AI Sc

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.

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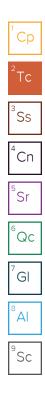
Sc

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	4
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Sr: Sample Results	11
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BH-1 (2-3') L1289013-02	12
BH-1 (4-5') L1289013-03	13
BH-1 (6-7') L1289013-04	14
BH-1 (9-10') L1289013-05	15
BH-1 (14-15') L1289013-06	16
BH-1 (19-20') L1289013-07	17
BH-2 (0-1') L1289013-08	18
BH-2 (2-3') L1289013-09	19
BH-2 (4-5') L1289013-10	20
BH-2 (6-7') L1289013-11	21
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BH-4 (3-4') L1289013-23	33
BH-5 (0-1') L1289013-24	34
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Qc: Quality Control Summary	40
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Wet Chemistry by Method 300.0	44
Volatile Organic Compounds (GC) by Method 8015D/GRO	47
Volatile Organic Compounds (GC/MS) by Method 8260B	50
Semi-Volatile Organic Compounds (GC) by Method 8015	54

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SAMPLE SUMMARY

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BH-1 (0-1') L1289013-01 Solid			Collected by Joe Tyler	Collected date/time 11/17/20 10:00	Received dat 11/21/20 09:3	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1584485	1	12/02/20 03:26	12/02/20 03:37	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1585204	1	12/02/20 21:12	12/03/20 05:50	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1584203	1	11/27/20 20:47	11/30/20 18:01	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1583520	1	11/27/20 20:47	11/28/20 10:22	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583818	1	12/01/20 05:53	12/01/20 08:15	CAG	Mt. Juliet, TN
BH-1 (2-3') L1289013-02 Solid			Collected by Joe Tyler	Collected date/time 11/17/20 10:10	Received dat 11/21/20 09:3	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
include and the second s	Baten	Dilation	date/time	date/time	7 and you	Location
Total Solids by Method 2540 G-2011	WG1584485	1	12/02/20 03:26	12/02/20 03:37	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1585204	1	12/02/20 21:12	12/03/20 05:59	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1584203	1	11/27/20 20:47	11/30/20 18:21	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1583520	1	11/27/20 20:47	11/28/20 10:40	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583818	1	12/01/20 05:53	12/01/20 11:57	CAG	Mt. Juliet, TI
			Collected by	Collected date/time	Received dat	te/time
BH-1 (4-5') L1289013-03 Solid			Joe Tyler	11/17/20 10:20	11/21/20 09:3	0
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1584486	1	12/02/20 23:38	12/02/20 23:50	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1586290	1	12/04/20 10:48	12/04/20 14:03	ELN	Mt. Juliet, TI
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1584203	1	11/27/20 20:47	11/30/20 18:42	BMB	Mt. Juliet, TI
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1583520	1	11/27/20 20:47	11/28/20 10:59	ACG	Mt. Juliet, TI
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583818	1	12/01/20 05:53	12/01/20 11:44	CAG	Mt. Juliet, TI
			Collected by	Collected date/time	Received dat	te/time
BH-1 (6-7') L1289013-04 Solid			Joe Tyler	11/17/20 10:30	11/21/20 09:3	0
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1584486	1	12/02/20 23:38	12/02/20 23:50	KBC	Mt. Juliet, TI
Wet Chemistry by Method 300.0	WG1586290	1	12/04/20 10:48	12/04/20 14:31	ELN	Mt. Juliet, TI
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1584203	1	11/27/20 20:47	11/30/20 19:03	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1583520	1	11/27/20 20:47	11/28/20 11:18	ACG	Mt. Juliet, TI
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583818	1	12/01/20 05:53	12/01/20 08:54	CAG	Mt. Juliet, T
			Collected by	Collected date/time	Received dat	te/time
BH-1 (9-10') L1289013-05 Solid			Joe Tyler	11/17/20 10:40	11/21/20 09:3	0
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1584486	1	12/02/20 23:38	12/02/20 23:50	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1586290	1	12/04/20 10:48	12/04/20 14:50	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1584203	1	11/27/20 20:47	11/30/20 19:23	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1583520	1	11/27/20 20:47	11/28/20 12:12	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583818	1	12/01/20 05:53	12/01/20 09:07	CAG	Mt. Juliet, TN

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BH-1 (14-15') L1289013-06 Solid			Collected by Joe Tyler	11/17/20 11:00	Received date/time 11/21/20 09:30		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1584486	1	12/02/20 23:38	12/02/20 23:50	KBC	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1586290	1	12/04/20 10:48	12/04/20 15:00	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1584203	1	11/27/20 20:47	11/30/20 19:44	BMB	Mt. Juliet, TN	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1583520	1	11/27/20 20:47	11/28/20 12:31	ACG	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583818	1	12/01/20 05:53	12/01/20 09:20	CAG	Mt. Juliet, TN	
			Collected by	Collected date/time	Received da	te/time	
BH-1 (19-20') L1289013-07 Solid			Joe Tyler	11/17/20 11:30	11/21/20 09:3	30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1584486	1	12/02/20 23:38	12/02/20 23:50	KBC	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1586290	1	12/04/20 10:48	12/04/20 15:09	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1584203	1	11/27/20 20:47	11/30/20 20:05	BMB	Mt. Juliet, TN	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1583520	1	11/27/20 20:47	11/28/20 12:50	ACG	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583818	1	12/01/20 05:53	12/01/20 09:33	CAG	Mt. Juliet, TN	
BH-2 (0-1') L1289013-08 Solid			Collected by Joe Tyler	Collected date/time 11/17/20 12:00	Received da 11/21/20 09:3		
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location	
			date/time	date/time	1		
Total Solids by Method 2540 G-2011	WG1584486	1	12/02/20 23:38	12/02/20 23:50	KBC	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1586290	1	12/04/20 10:48	12/04/20 15:38	ELN	Mt. Juliet, T	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1584424	1	11/27/20 20:47	12/01/20 08:15	DWR	Mt. Juliet, T	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1583520	1	11/27/20 20:47	11/28/20 13:09	ACG	Mt. Juliet, T	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583818	1	12/01/20 05:53	12/01/20 12:36	CAG	Mt. Juliet, T	
BH-2 (2-3') L1289013-09 Solid			Collected by Joe Tyler	Collected date/time 11/17/20 12:10		Received date/time 11/21/20 09:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1584486	1	12/02/20 23:38	12/02/20 23:50	KBC	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1586290	1	12/04/20 10:48	12/04/20 15:47	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1584424	1	11/27/20 20:47	12/01/20 08:36	DWR	Mt. Juliet, TN	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1583520	1	11/27/20 20:47	11/28/20 13:28	ACG	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583818	1	12/01/20 05:53	12/01/20 12:23	CAG	Mt. Juliet, TN	
BH-2 (4-5') L1289013-10 Solid			Collected by Joe Tyler	Collected date/time 11/17/20 12:20		Received date/time 11/21/20 09:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1584486	1	12/02/20 23:38	12/02/20 23:50	KBC	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1586290	1	12/04/20 10:48	12/04/20 15:57	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1584424	1	11/27/20 20:47	12/01/20 08:57	DWR	Mt. Juliet, TN	
	WG1583520	1	11/27/20 20:47	11/28/20 13:47	ACG	Mt. Juliet, TN	
Volatile Organic Compounds (GC/MS) by Method 8260B							

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BH-2 (6-7') L1289013-11 Solid			Collected by Joe Tyler	Collected date/time 11/17/20 12:30	Received da 11/21/20 09:3	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1584486	1	12/02/20 23:38	12/02/20 23:50	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1586290	1	12/04/20 10:48	12/04/20 16:06	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1584424	1	11/27/20 20:47	12/01/20 09:18	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1583520	1	11/27/20 20:47	11/28/20 14:06	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583818	1	12/01/20 05:53	12/01/20 09:46	CAG	Mt. Juliet, TN
BH-2 (9-10') L1289013-12 Solid			Collected by Joe Tyler	Collected date/time 11/17/20 12:40	Received da 11/21/20 09:3	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1584486	1	12/02/20 23:38	12/02/20 23:50	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1586290	1	12/04/20 10:48	12/04/20 16:16	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1584424	1	11/27/20 20:47	12/01/20 09:38	DWR	Mt. Juliet, T
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1583520	1	11/27/20 20:47	11/28/20 14:25	ACG	Mt. Juliet, TI
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583818	1	12/01/20 05:53	12/01/20 09:59	CAG	Mt. Juliet, TI
			Collected by	Collected date/time	Received da	
BH-2 (14-15') L1289013-13 Solid			Joe Tyler	11/17/20 13:00	11/21/20 09:3	30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1584487	1	12/03/20 00:06	12/03/20 00:15	KBC	Mt. Juliet, Ti
Wet Chemistry by Method 300.0	WG1586290	1	12/04/20 10:48	12/04/20 16:25	ELN	Mt. Juliet, TI
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1584424	1	11/27/20 20:47	12/01/20 09:59	DWR	Mt. Juliet, Tl
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1583520	1	11/27/20 20:47	11/28/20 14:43	ACG	Mt. Juliet, TI
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583818	1	12/01/20 05:53	12/01/20 10:12	CAG	Mt. Juliet, TI
BH-2 (19-20') L1289013-14 Solid			Collected by Joe Tyler	Collected date/time 11/17/20 13:30	Received da 11/21/20 09:3	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1584487	1	12/03/20 00:06	12/03/20 00:15	KBC	Mt. Juliet, TI
Wet Chemistry by Method 300.0	WG1586290	1	12/04/20 10:48	12/04/20 16:35	ELN	Mt. Juliet, TI
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1584424	1	11/27/20 20:47	12/01/20 10:20	DWR	Mt. Juliet, TI
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1583520	1	11/27/20 20:47	11/28/20 15:02	ACG	Mt. Juliet, Tl
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583818	1	12/01/20 05:53	12/01/20 10:25	CAG	Mt. Juliet, Ti
BH-3 (0-1') L1289013-15 Solid			Collected by Joe Tyler	Collected date/time 11/17/20 14:00	Received date/time 11/21/20 09:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1584487	1	12/03/20 00:06	12/03/20 00:15	KBC	Mt. Juliet, TI
Wet Chemistry by Method 300.0	WG1586290	1	12/04/20 10:48	12/04/20 16:44	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1584424	1	11/27/20 20:47	12/01/20 10:41	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1583520	1	11/27/20 20:47	11/28/20 15:21	ACG	Mt. Juliet, TN
	WG1583818	1	12/01/20 05:53	12/01/20 12:10	CAG	Mt. Juliet, TN

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BH-3 (2-3') L1289013-16 Solid			Collected by Joe Tyler	Collected date/time 11/17/20 14:10	Received da 11/21/20 09:3		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1584487	1	12/03/20 00:06	12/03/20 00:15	KBC	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1586290	1	12/04/20 10:48	12/04/20 16:54	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1584424	1	11/27/20 20:47	12/01/20 11:01	DWR	Mt. Juliet, TN	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1583520	1	11/27/20 20:47	11/28/20 15:40	ACG	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583818	1	12/01/20 05:53	12/01/20 11:31	CAG	Mt. Juliet, TN	
BH-3 (4-5') L1289013-17 Solid			Collected by Joe Tyler	Collected date/time 11/17/20 14:20	Received da 11/21/20 09:3		
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location	
		Shation	date/time	date/time	, and you	200000	
Total Solids by Method 2540 G-2011	WG1584487	1	12/03/20 00:06	12/03/20 00:15	KBC	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1586290	1	12/04/20 10:48	12/04/20 17:03	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1584636	1	11/27/20 20:47	12/01/20 14:00	BMB	Mt. Juliet, TN	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1583520	1	11/27/20 20:47	11/28/20 15:59	ACG	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583818	1	12/01/20 05:53	12/01/20 10:38	CAG	Mt. Juliet, TN	
BH-3 (6-7') L1289013-18 Solid			Collected by Joe Tyler	Collected date/time 11/17/20 14:30	Received da 11/21/20 09:3		
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location	
			date/time	date/time			
Total Solids by Method 2540 G-2011	WG1584487	1	12/03/20 00:06	12/03/20 00:15	KBC	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1586290	1	12/04/20 10:48	12/04/20 17:32	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1584636	1	11/27/20 20:47	12/01/20 14:45	BMB	Mt. Juliet, TN	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1583520	1	11/27/20 20:47	11/28/20 16:18	ACG	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583818	1	12/01/20 05:53	12/01/20 10:51	CAG	Mt. Juliet, TN	
BH-3 (9-10') L1289013-19 Solid			Collected by Joe Tyler	Collected date/time 11/17/20 14:40	Received da 11/21/20 09:3		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1584487	1	12/03/20 00:06	12/03/20 00:15	KBC	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1586290	1	12/04/20 10:48	12/04/20 17:41	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1584636	1	11/27/20 20:47	12/01/20 15:07	BMB	Mt. Juliet, TN	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1583520	1	11/27/20 20:47	11/28/20 16:37	ACG	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583818	1	12/01/20 05:53	12/01/20 11:05	CAG	Mt. Juliet, TN	
BH-3 (14-15') L1289013-20 Solid			Collected by Joe Tyler	Collected date/time 11/17/20 15:00		Received date/time 11/21/20 09:30	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location	
			date/time	date/time		•••	
Total Solids by Method 2540 G-2011	WG1584487	1	12/03/20 00:06	12/03/20 00:15	KBC	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1586290	1	12/04/20 10:48	12/04/20 17:51	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1584636	1	11/27/20 20:47	12/01/20 15:29	BMB	Mt. Juliet, TN	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1583520	1	11/27/20 20:47	11/28/20 16:56	ACG	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583818	1	12/01/20 05:53	12/01/20 11:18	CAG	Mt. Juliet, TN	

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BH-3 (19-20') L1289013-21 Solid			Collected by Joe Tyler	Collected date/time 11/17/20 15:30	Received da 11/21/20 09:3	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1584487	1	12/03/20 00:06	12/03/20 00:15	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1586290	1	12/04/20 10:48	12/04/20 18:00	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1584636	1	11/27/20 20:47	12/01/20 15:52	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1583526	1	11/27/20 20:47	11/28/20 23:57	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583819	1	12/01/20 02:26	12/01/20 14:43	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	
BH-4 (0-1') L1289013-22 Solid			Joe Tyler	11/17/20 16:00	11/21/20 09:3	30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1584487	1	12/03/20 00:06	12/03/20 00:15	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1586290	1	12/04/20 10:48	12/04/20 18:10	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1584636	1	11/27/20 20:47	12/01/20 16:14	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1583526	1	11/27/20 20:47	11/29/20 00:15	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583819	1	12/01/20 02:26	12/01/20 14:56	TJD	Mt. Juliet, TN
BH-4 (3-4') L1289013-23 Solid			Collected by Joe Tyler	Collected date/time 11/17/20 16:10	Received da 11/21/20 09:3	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
inculou	Batch	Dilution	date/time	date/time	Analyse	Location
Total Solids by Method 2540 G-2011	WG1584488	1	12/02/20 23:52	12/03/20 00:02	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1587097	1	12/06/20 09:46	12/06/20 12:47	ST	Mt. Juliet, T
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1584636	1	11/27/20 20:47	12/01/20 16:36	BMB	Mt. Juliet, T
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1583886	1	11/27/20 20:47	11/29/20 21:18	DWR	Mt. Juliet, T
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583819	1	12/01/20 02:26	12/01/20 15:09	TJD	Mt. Juliet, Ti
BH-5 (0-1') L1289013-24 Solid			Collected by Joe Tyler	Collected date/time 11/17/20 16:30	Received da 11/21/20 09:3	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1584488	1	12/02/20 23:52	12/03/20 00:02	KBC	Mt. Juliet, TI
Wet Chemistry by Method 300.0	WG1587097	1	12/06/20 09:46	12/06/20 13:06	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1584636	1	11/27/20 20:47	12/01/20 16:59	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1583886	1	11/27/20 20:47	11/29/20 21:37	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583819	1	12/01/20 02:26	12/01/20 18:43	TJD	Mt. Juliet, TN
BH-5 (3-4') L1289013-25 Solid			Collected by Joe Tyler	Collected date/time 11/17/20 16:40	Received da 11/21/20 09:3	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1584488	1	12/02/20 23:52	12/03/20 00:02	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1587097	1	12/06/20 09:46	12/06/20 13:15	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1584636	1	11/27/20 20:47	12/01/20 17:21	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1583886	1	11/27/20 20:47	11/29/20 21:56	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583819	1	12/01/20 02:26	12/01/20 17:02	TJD	Mt. Juliet, TN

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BH-6 (0-1') L1289013-26 Solid			Joe Tyler	11/17/20 17:00	11/21/20 09:3	0
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1584488	1	12/02/20 23:52	12/03/20 00:02	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1587097	1	12/06/20 09:46	12/06/20 13:25	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1584636	1	11/27/20 20:47	12/01/20 18:12	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1583886	1	11/27/20 20:47	11/29/20 22:15	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583819	1	12/01/20 02:26	12/01/20 17:53	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received dat	te/time
BH-6 (3-4') L1289013-27 Solid			Joe Tyler	11/17/20 17:10	11/21/20 09:3	0
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1584488	1	12/02/20 23:52	12/03/20 00:02	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1587097	1	12/06/20 09:46	12/06/20 13:34	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1584636	1	11/27/20 20:47	12/01/20 18:35	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1583886	1	11/27/20 20:47	11/29/20 22:34	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583819	1	12/01/20 02:26	12/01/20 17:40	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received dat	te/time
BH-7 (0-1') L1289013-28 Solid			Joe Tyler	11/17/20 17:30	11/21/20 09:3	0
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1584488	1	12/02/20 23:52	12/03/20 00:02	KBC	Mt. Juliet, TN
		1	12/06/20 09:46	12/06/20 13:44	ST	Mt. Juliet, TN
-	WG1587097	1	12/00/20 00.10	12/00/20 10:11		
Wet Chemistry by Method 300.0	WG1587097 WG1584636	1	11/27/20 20:47	12/01/20 18:57	BMB	Mt. Juliet, TN
Wet Chemistry by Method 300.0 Volatile Organic Compounds (GC) by Method 8015D/GRO						Mt. Juliet, TN Mt. Juliet, TN
Wet Chemistry by Method 300.0 Volatile Organic Compounds (GC) by Method 8015D/GRO Volatile Organic Compounds (GC/MS) by Method 8260B	WG1584636	1	11/27/20 20:47	12/01/20 18:57	BMB	Mt. Juliet, TN
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	WG1584636 WG1583886	1 1	11/27/20 20:47 11/27/20 20:47	12/01/20 18:57 11/29/20 22:53	BMB DWR TJD	Mt. Juliet, TN Mt. Juliet, TN
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	WG1584636 WG1583886	1 1	11/27/20 20:47 11/27/20 20:47 12/01/20 02:26	12/01/20 18:57 11/29/20 22:53 12/01/20 17:15	BMB DWR TJD	Mt. Juliet, TN Mt. Juliet, TN te/time
Wet Chemistry by Method 300.0 Volatile Organic Compounds (GC) by Method 8015D/GRO Volatile Organic Compounds (GC/MS) by Method 8260B	WG1584636 WG1583886	1 1	11/27/20 20:47 11/27/20 20:47 12/01/20 02:26 Collected by	12/01/20 18:57 11/29/20 22:53 12/01/20 17:15 Collected date/time	BMB DWR TJD Received da	Mt. Juliet, TN Mt. Juliet, TN te/time
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 BH-7 (3-4') L1289013-29 Solid Method	WG1584636 WG1583886 WG1583819	1 1 1	11/27/20 20:47 11/27/20 20:47 12/01/20 02:26 Collected by Joe Tyler Preparation	12/01/20 18:57 11/29/20 22:53 12/01/20 17:15 Collected date/time 11/17/20 17:40 Analysis	BMB DWR TJD Received da 11/21/20 09:3	Mt. Juliet, TN Mt. Juliet, TN te/time 00 Location
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 BH-7 (3-4') L1289013-29 Solid	WG1584636 WG1583886 WG1583819 Batch	1 1 1 Dilution	11/27/20 20:47 11/27/20 20:47 12/01/20 02:26 Collected by Joe Tyler Preparation date/time	12/01/20 18:57 11/29/20 22:53 12/01/20 17:15 Collected date/time 11/17/20 17:40 Analysis date/time	BMB DWR TJD Received dar 11/21/20 09:3 Analyst	Mt. Juliet, TN Mt. Juliet, TN te/time
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 BH-7 (3-4') L1289013-29 Solid Method Total Solids by Method 2540 G-2011	WG1584636 WG1583886 WG1583819 Batch WG1584488	1 1 Dilution	11/27/20 20:47 11/27/20 20:47 12/01/20 02:26 Collected by Joe Tyler Preparation date/time 12/02/20 23:52	12/01/20 18:57 11/29/20 22:53 12/01/20 17:15 Collected date/time 11/17/20 17:40 Analysis date/time 12/03/20 00:02	BMB DWR TJD Received dat 11/21/20 09:3 Analyst KBC	Mt. Juliet, TN Mt. Juliet, TN te/time 00 Location Mt. Juliet, TN
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 BH-7 (3-4') L1289013-29 Solid Method Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1584636 WG1583886 WG1583819 Batch WG1584488 WG1587097	1 1 Dilution	11/27/20 20:47 11/27/20 20:47 12/01/20 02:26 Collected by Joe Tyler Preparation date/time 12/02/20 23:52 12/06/20 09:46	12/01/20 18:57 11/29/20 22:53 12/01/20 17:15 Collected date/time 11/17/20 17:40 Analysis date/time 12/03/20 00:02 12/06/20 13:53	BMB DWR TJD Received dat 11/21/20 09:3 Analyst KBC ST	Mt. Juliet, TN Mt. Juliet, TN te/time 30 Location Mt. Juliet, TN Mt. Juliet, TN

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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

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SAMPLE RESULTS - 01

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Total Solids by Method 2540 G-2011

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	Result	Qualifier	Dilution	Analysis	Batch		J
Analyte	%			date / time		2	_
Total Solids	96.4		1	12/02/2020 03:37	WG1584485	Tc	

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		9.54	20.7	1	12/03/2020 05:50	WG1585204

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		e
TPH (GC/FID) Low Fraction	0.0228	ВJ	0.0225	0.104	1	11/30/2020 18:01	WG1584203	
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		11/30/2020 18:01	WG1584203	7

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		0.000502	0.00107	1	11/28/2020 10:22	<u>WG1583520</u>
Toluene	U		0.00140	0.00537	1	11/28/2020 10:22	<u>WG1583520</u>
Ethylbenzene	U		0.000792	0.00269	1	11/28/2020 10:22	<u>WG1583520</u>
Total Xylenes	U		0.000945	0.00698	1	11/28/2020 10:22	<u>WG1583520</u>
(S) Toluene-d8	102			75.0-131		11/28/2020 10:22	WG1583520
(S) 4-Bromofluorobenzene	95.4			67.0-138		11/28/2020 10:22	<u>WG1583520</u>
(S) 1,2-Dichloroethane-d4	108			70.0-130		11/28/2020 10:22	WG1583520

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	12/01/2020 08:15	WG1583818
C28-C40 Oil Range	0.684	J	0.284	4.15	1	12/01/2020 08:15	WG1583818
(S) o-Terphenyl	66.8			18.0-148		12/01/2020 08:15	WG1583818

SDG: L1289013

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Collected date/time: 11/17/20 10:10

	Result	Qualifi	ier Dilution	Analysis		Batch		
Analyte	%			date / time				
Total Solids	95.9		1	12/02/2020 03:3	7	WG1584485		
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		9.59	20.9	1	12/03/2020 05:59	WG1585204	
Volatile Organic (Compounds (GC) by Me	ethod 8015	D/GRO				
Volatile Organic (Compounds (Result (dry)	(GC) by Me <u>Qualifier</u>	ethod 8015 MDL (dry)	D/GRO RDL (dry)	Dilution	Analysis	Batch	
Volatile Organic (Dilution	Analysis date / time	Batch	
	Result (dry)		MDL (dry)	RDL (dry)	Dilution		Batch WG1584203	

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		0.000507	0.00109	1	11/28/2020 10:40	WG1583520
Toluene	U		0.00141	0.00543	1	11/28/2020 10:40	WG1583520
Ethylbenzene	U		0.000800	0.00271	1	11/28/2020 10:40	WG1583520
Total Xylenes	U		0.000955	0.00705	1	11/28/2020 10:40	WG1583520
(S) Toluene-d8	104			75.0-131		11/28/2020 10:40	WG1583520
(S) 4-Bromofluorobenzene	91.3			67.0-138		11/28/2020 10:40	WG1583520
(S) 1,2-Dichloroethane-d4	104			70.0-130		11/28/2020 10:40	WG1583520

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		1.68	4.17	1	12/01/2020 11:57	WG1583818
C28-C40 Oil Range	0.611	J	0.286	4.17	1	12/01/2020 11:57	WG1583818
(S) o-Terphenyl	62.1			18.0-148		12/01/2020 11:57	WG1583818

SDG: L1289013

SAMPLE RESULTS - 03 L1289013

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	93.9		1	12/02/2020 23:50	WG1584486	Tc

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	28.1		9.80	21.3	1	12/04/2020 14:03	WG1586290		CII

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		0
TPH (GC/FID) Low Fraction	U		0.0231	0.107	1	11/30/2020 18:42	WG1584203	
(S) a,a,a-Trifluorotoluene(FID)	96.6			77.0-120		11/30/2020 18:42	WG1584203	7

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		0.000528	0.00113	1	11/28/2020 10:59	WG1583520
Toluene	U		0.00147	0.00565	1	11/28/2020 10:59	WG1583520
Ethylbenzene	U		0.000833	0.00283	1	11/28/2020 10:59	WG1583520
Total Xylenes	U		0.000995	0.00735	1	11/28/2020 10:59	WG1583520
(S) Toluene-d8	105			75.0-131		11/28/2020 10:59	WG1583520
(S) 4-Bromofluorobenzene	94.9			67.0-138		11/28/2020 10:59	WG1583520
(S) 1,2-Dichloroethane-d4	97.1			70.0-130		11/28/2020 10:59	WG1583520

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	4.26	1	12/01/2020 11:44	WG1583818
C28-C40 Oil Range	0.647	J	0.292	4.26	1	12/01/2020 11:44	WG1583818
(S) o-Terphenyl	63.2			18.0-148		12/01/2020 11:44	WG1583818

SDG: L1289013

SAMPLE RESULTS - 04 L1289013

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	94.6		1	12/02/2020 23:50	WG1584486	Tc

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	65.9		9.72	21.1	1	12/04/2020 14:31	WG1586290		

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	quanner	mg/kg	mg/kg	Dilution	date / time	baten	
TPH (GC/FID) Low Fraction	0.0295	ВJ	0.0229	0.106	1	11/30/2020 19:03	WG1584203	
(S) a,a,a-Trifluorotoluene(FID)	96.1			77.0-120		11/30/2020 19:03	WG1584203	

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		0.000520	0.00111	1	11/28/2020 11:18	<u>WG1583520</u>
Toluene	U		0.00145	0.00557	1	11/28/2020 11:18	<u>WG1583520</u>
Ethylbenzene	U		0.000821	0.00279	1	11/28/2020 11:18	<u>WG1583520</u>
Total Xylenes	U		0.000980	0.00724	1	11/28/2020 11:18	<u>WG1583520</u>
(S) Toluene-d8	105			75.0-131		11/28/2020 11:18	<u>WG1583520</u>
(S) 4-Bromofluorobenzene	92.8			67.0-138		11/28/2020 11:18	<u>WG1583520</u>
(S) 1,2-Dichloroethane-d4	104			70.0-130		11/28/2020 11:18	WG1583520

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		1.70	4.23	1	12/01/2020 08:54	WG1583818
C28-C40 Oil Range	0.457	J	0.290	4.23	1	12/01/2020 08:54	WG1583818
(S) o-Terphenyl	64.0			18.0-148		12/01/2020 08:54	WG1583818

SDG: L1289013

SAMPLE RESULTS - 05 L1289013

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	90.4		1	12/02/2020 23:50	WG1584486	Tc

Wet Chemistry by Method 300.0

Wet Chemist	ry 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	254		10.2	22.1	1	12/04/2020 14:50	WG1586290	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		e
TPH (GC/FID) Low Fraction	0.0270	ВJ	0.0240	0.111	1	11/30/2020 19:23	WG1584203	
(S) a,a,a-Trifluorotoluene(FID)	96.1			77.0-120		11/30/2020 19:23	WG1584203	7

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		0.000567	0.00121	1	11/28/2020 12:12	<u>WG1583520</u>
Toluene	U		0.00158	0.00607	1	11/28/2020 12:12	<u>WG1583520</u>
Ethylbenzene	U		0.000894	0.00303	1	11/28/2020 12:12	WG1583520
Total Xylenes	U		0.00107	0.00789	1	11/28/2020 12:12	<u>WG1583520</u>
(S) Toluene-d8	99.3			75.0-131		11/28/2020 12:12	WG1583520
(S) 4-Bromofluorobenzene	102			67.0-138		11/28/2020 12:12	<u>WG1583520</u>
(S) 1,2-Dichloroethane-d4	119			70.0-130		11/28/2020 12:12	WG1583520

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		1.78	4.43	1	12/01/2020 09:07	WG1583818
C28-C40 Oil Range	U		0.303	4.43	1	12/01/2020 09:07	WG1583818
(S) o-Terphenyl	56.3			18.0-148		12/01/2020 09:07	WG1583818

SDG: L1289013

SAMPLE RESULTS - 06 L1289013

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	92.9		1	12/02/2020 23:50	WG1584486	Tc

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	61.5		9.91	21.5	1	12/04/2020 15:00	WG1586290	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>	
Analyte	mg/kg	quanner	mg/kg	mg/kg	Dilution	date / time	bach	
TPH (GC/FID) Low Fraction	0.0276	ВJ	0.0234	0.108	1	11/30/2020 19:44	WG1584203	
(S) a,a,a-Trifluorotoluene(FID)	93.6			77.0-120		11/30/2020 19:44	WG1584203	

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		0.000539	0.00115	1	11/28/2020 12:31	<u>WG1583520</u>
Toluene	U		0.00150	0.00577	1	11/28/2020 12:31	<u>WG1583520</u>
Ethylbenzene	U		0.000850	0.00288	1	11/28/2020 12:31	<u>WG1583520</u>
Total Xylenes	U		0.00101	0.00750	1	11/28/2020 12:31	<u>WG1583520</u>
(S) Toluene-d8	101			75.0-131		11/28/2020 12:31	<u>WG1583520</u>
(S) 4-Bromofluorobenzene	93.0			67.0-138		11/28/2020 12:31	<u>WG1583520</u>
(S) 1,2-Dichloroethane-d4	111			70.0-130		11/28/2020 12:31	WG1583520

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	4.31	1	12/01/2020 09:20	WG1583818
C28-C40 Oil Range	0.437	J	0.295	4.31	1	12/01/2020 09:20	WG1583818
(S) o-Terphenyl	62.2			18.0-148		12/01/2020 09:20	WG1583818

SDG: L1289013

SAMPLE RESULTS - 07 L1289013

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch		Ср
Analyte	%			date / time		-	2
Total Solids	91.6		1	12/02/2020 23:50	WG1584486		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	60.6		10.0	21.8	1	12/04/2020 15:09	WG1586290	

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

	Result (dry)	Qualifior	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
	Result (uly)	Qualifier	MDL (ury)	KDL (ury)	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		Q
TPH (GC/FID) Low Fraction	0.0268	ВJ	0.0237	0.109	1	11/30/2020 20:05	WG1584203	
(S) a,a,a-Trifluorotoluene(FID)	96.6			77.0-120		11/30/2020 20:05	WG1584203	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		0.000553	0.00118	1	11/28/2020 12:50	<u>WG1583520</u>
Toluene	U		0.00154	0.00592	1	11/28/2020 12:50	<u>WG1583520</u>
Ethylbenzene	U		0.000873	0.00296	1	11/28/2020 12:50	<u>WG1583520</u>
Total Xylenes	U		0.00104	0.00770	1	11/28/2020 12:50	<u>WG1583520</u>
(S) Toluene-d8	104			75.0-131		11/28/2020 12:50	<u>WG1583520</u>
(S) 4-Bromofluorobenzene	92.4			67.0-138		11/28/2020 12:50	<u>WG1583520</u>
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/28/2020 12:50	WG1583520

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		1.76	4.37	1	12/01/2020 09:33	WG1583818
C28-C40 Oil Range	U		0.299	4.37	1	12/01/2020 09:33	WG1583818
(S) o-Terphenyl	60.1			18.0-148		12/01/2020 09:33	WG1583818

SDG: L1289013

DATE/TIME: 12/07/20 19:37 PAGE: 17 of 61 SAMPLE RESULTS - 08 L1289013

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	(Ср
Analyte	%			date / time		2	
Total Solids	97.9		1	12/02/2020 23:50	WG1584486		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	187		9.40	20.4	1	12/04/2020 15:38	WG1586290

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0275	ВJ	0.0222	0.102	1	12/01/2020 08:15	WG1584424
(S) a,a,a-Trifluorotoluene(FID)	95.4			77.0-120		12/01/2020 08:15	WG1584424

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	11/28/2020 13:09	WG1583520
Toluene	U		0.00136	0.00521	1	11/28/2020 13:09	WG1583520
Ethylbenzene	U		0.000768	0.00261	1	11/28/2020 13:09	WG1583520
Total Xylenes	U		0.000918	0.00678	1	11/28/2020 13:09	<u>WG1583520</u>
(S) Toluene-d8	102			75.0-131		11/28/2020 13:09	WG1583520
(S) 4-Bromofluorobenzene	99.0			67.0-138		11/28/2020 13:09	WG1583520
(S) 1,2-Dichloroethane-d4	113			70.0-130		11/28/2020 13:09	WG1583520

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	34.7		1.64	4.09	1	12/01/2020 12:36	WG1583818
C28-C40 Oil Range	108		0.280	4.09	1	12/01/2020 12:36	WG1583818
(S) o-Terphenyl	56.0			18.0-148		12/01/2020 12:36	WG1583818

SDG: L1289013

SAMPLE RESULTS - 09 L1289013

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch		Ср
Analyte	%			date / time		1	2
Total Solids	94.6		1	12/02/2020 23:50	WG1584486		Tc

Wet Chemistry by Method 300.0

Wet Chemistry	y 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	605		9.72	21.1	1	12/04/2020 15:47	WG1586290	CII

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0310	ВJ	0.0229	0.106	1	12/01/2020 08:36	WG1584424
(S) a,a,a-Trifluorotoluene(FID)	94.2			77.0-120		12/01/2020 08:36	WG1584424

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		0.000520	0.00111	1	11/28/2020 13:28	WG1583520
Toluene	U		0.00145	0.00557	1	11/28/2020 13:28	WG1583520
Ethylbenzene	U		0.000821	0.00278	1	11/28/2020 13:28	WG1583520
Total Xylenes	U		0.000980	0.00724	1	11/28/2020 13:28	WG1583520
(S) Toluene-d8	107			75.0-131		11/28/2020 13:28	WG1583520
(S) 4-Bromofluorobenzene	94.6			67.0-138		11/28/2020 13:28	WG1583520
(S) 1,2-Dichloroethane-d4	108			70.0-130		11/28/2020 13:28	WG1583520

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	38.3		1.70	4.23	1	12/01/2020 12:23	WG1583818
C28-C40 Oil Range	118		0.290	4.23	1	12/01/2020 12:23	WG1583818
(S) o-Terphenyl	53.5			18.0-148		12/01/2020 12:23	WG1583818

SDG: L1289013

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SAMPLE RESULTS - 10 L1289013

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch		Ср
Analyte	%			date / time		2	
Total Solids	96.7		1	12/02/2020 23:50	WG1584486		Тс

Wet Chemistry by Method 300.0

Wet Chemistr	y 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	344		9.51	20.7	1	12/04/2020 15:57	WG1586290	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0310	ВJ	0.0224	0.103	1	12/01/2020 08:57	WG1584424	
(S) a,a,a-Trifluorotoluene(FID)	95.5			77.0-120		12/01/2020 08:57	WG1584424	

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	11/28/2020 13:47	<u>WG1583520</u>
Toluene	U		0.00139	0.00534	1	11/28/2020 13:47	<u>WG1583520</u>
Ethylbenzene	U		0.000787	0.00267	1	11/28/2020 13:47	<u>WG1583520</u>
Total Xylenes	U		0.000940	0.00694	1	11/28/2020 13:47	<u>WG1583520</u>
(S) Toluene-d8	104			75.0-131		11/28/2020 13:47	<u>WG1583520</u>
(S) 4-Bromofluorobenzene	95.8			67.0-138		11/28/2020 13:47	<u>WG1583520</u>
(S) 1,2-Dichloroethane-d4	110			70.0-130		11/28/2020 13:47	<u>WG1583520</u>

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	17.1		1.66	4.13	1	12/01/2020 13:02	WG1583818
C28-C40 Oil Range	55.6		0.283	4.13	1	12/01/2020 13:02	WG1583818
(S) o-Terphenyl	63.8			18.0-148		12/01/2020 13:02	WG1583818

SDG: L1289013

Received by OGD: 9/2/2021 11:22:10 AM Collected date/time: 11/17/20 12:30

SAMPLE RESULTS - 11 L1289013

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Total Solids by Method 2540 G-2011

-		Result	Qualifier	Dilution	Analysis	Batch	C	р
A	alyte	%			date / time		2	_
To	tal Solids	94.2		1	12/02/2020 23:50	WG1584486	T	С

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	501		9.76	21.2	1	12/04/2020 16:06	WG1586290

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0310	ВJ	0.0230	0.106	1	12/01/2020 09:18	WG1584424
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		12/01/2020 09:18	WG1584424

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		0.000524	0.00112	1	11/28/2020 14:06	<u>WG1583520</u>
Toluene	U		0.00146	0.00561	1	11/28/2020 14:06	<u>WG1583520</u>
Ethylbenzene	U		0.000827	0.00281	1	11/28/2020 14:06	WG1583520
Total Xylenes	U		0.000988	0.00730	1	11/28/2020 14:06	<u>WG1583520</u>
(S) Toluene-d8	103			75.0-131		11/28/2020 14:06	WG1583520
(S) 4-Bromofluorobenzene	95.7			67.0-138		11/28/2020 14:06	<u>WG1583520</u>
(S) 1,2-Dichloroethane-d4	115			70.0-130		11/28/2020 14:06	WG1583520

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	12/01/2020 09:46	WG1583818
C28-C40 Oil Range	U		0.291	4.24	1	12/01/2020 09:46	WG1583818
(S) o-Terphenyl	57.2			18.0-148		12/01/2020 09:46	WG1583818

SDG: L1289013 12/07/20 19:37

SAMPLE RESULTS - 12 L1289013

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	— Ср
Analyte	%			date / time		2
Total Solids	92.5		1	12/02/2020 23:50	WG1584486	Tc

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	104		9.94	21.6	1	12/04/2020 16:16	WG1586290	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0299	ВJ	0.0235	0.108	1	12/01/2020 09:38	WG1584424
(S) a,a,a-Trifluorotoluene(FID)	96.0			77.0-120		12/01/2020 09:38	WG1584424

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		0.000543	0.00116	1	11/28/2020 14:25	WG1583520
Toluene	U		0.00151	0.00581	1	11/28/2020 14:25	<u>WG1583520</u>
Ethylbenzene	U		0.000856	0.00291	1	11/28/2020 14:25	WG1583520
Total Xylenes	U		0.00102	0.00755	1	11/28/2020 14:25	<u>WG1583520</u>
(S) Toluene-d8	103			75.0-131		11/28/2020 14:25	WG1583520
(S) 4-Bromofluorobenzene	99.6			67.0-138		11/28/2020 14:25	<u>WG1583520</u>
(S) 1,2-Dichloroethane-d4	120			70.0-130		11/28/2020 14:25	WG1583520

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		1.74	4.32	1	12/01/2020 09:59	WG1583818
C28-C40 Oil Range	0.476	J	0.296	4.32	1	12/01/2020 09:59	WG1583818
(S) o-Terphenyl	55.3			18.0-148		12/01/2020 09:59	WG1583818

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		 2
Total Solids	92.3		1	12/03/2020 00:15	WG1584487	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	45.3		9.97	21.7	1	12/04/2020 16:25	WG1586290	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0285	ВJ	0.0235	0.108	1	12/01/2020 09:59	WG1584424	
(S) a,a,a-Trifluorotoluene(FID)	96.3			77.0-120		12/01/2020 09:59	<u>WG1584424</u>	

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		0.000545	0.00117	1	11/28/2020 14:43	<u>WG1583520</u>
Toluene	U		0.00152	0.00584	1	11/28/2020 14:43	<u>WG1583520</u>
Ethylbenzene	U		0.000860	0.00292	1	11/28/2020 14:43	WG1583520
Total Xylenes	U		0.00103	0.00759	1	11/28/2020 14:43	<u>WG1583520</u>
(S) Toluene-d8	105			75.0-131		11/28/2020 14:43	WG1583520
(S) 4-Bromofluorobenzene	92.8			67.0-138		11/28/2020 14:43	<u>WG1583520</u>
(S) 1,2-Dichloroethane-d4	112			70.0-130		11/28/2020 14:43	WG1583520

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		1.74	4.33	1	12/01/2020 10:12	WG1583818
C28-C40 Oil Range	0.926	J	0.297	4.33	1	12/01/2020 10:12	WG1583818
(S) o-Terphenyl	63.8			18.0-148		12/01/2020 10:12	WG1583818

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	96.3		1	12/03/2020 00:15	WG1584487	Tc

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	55.3		9.55	20.8	1	12/04/2020 16:35	WG1586290	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0244	<u>B J</u>	0.0225	0.104	1	12/01/2020 10:20	WG1584424	
(S) a,a,a-Trifluorotoluene(FID)	96.4			77.0-120		12/01/2020 10:20	WG1584424	

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		0.000502	0.00108	1	11/28/2020 15:02	<u>WG1583520</u>
Toluene	U		0.00140	0.00538	1	11/28/2020 15:02	<u>WG1583520</u>
Ethylbenzene	U		0.000793	0.00269	1	11/28/2020 15:02	WG1583520
Total Xylenes	U		0.000947	0.00699	1	11/28/2020 15:02	<u>WG1583520</u>
(S) Toluene-d8	101			75.0-131		11/28/2020 15:02	WG1583520
(S) 4-Bromofluorobenzene	95.8			67.0-138		11/28/2020 15:02	<u>WG1583520</u>
(S) 1,2-Dichloroethane-d4	111			70.0-130		11/28/2020 15:02	WG1583520

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	12/01/2020 10:25	WG1583818
C28-C40 Oil Range	3.44	J	0.284	4.15	1	12/01/2020 10:25	WG1583818
(S) o-Terphenyl	72.5			18.0-148		12/01/2020 10:25	WG1583818

SDG: L1289013

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	96.2		1	12/03/2020 00:15	<u>WG1584487</u>	Tc

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	71.8		9.56	20.8	1	12/04/2020 16:44	WG1586290

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	quanter	mg/kg	mg/kg	Dilution	date / time	Baten	
TPH (GC/FID) Low Fraction	0.0265	ВJ	0.0226	0.104	1	12/01/2020 10:41	WG1584424	
(S) a,a,a-Trifluorotoluene(FID)	96.5			77.0-120		12/01/2020 10:41	WG1584424	

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		0.000504	0.00108	1	11/28/2020 15:21	<u>WG1583520</u>
Toluene	U		0.00140	0.00539	1	11/28/2020 15:21	<u>WG1583520</u>
Ethylbenzene	U		0.000795	0.00270	1	11/28/2020 15:21	<u>WG1583520</u>
Total Xylenes	U		0.000949	0.00701	1	11/28/2020 15:21	<u>WG1583520</u>
(S) Toluene-d8	101			75.0-131		11/28/2020 15:21	<u>WG1583520</u>
(S) 4-Bromofluorobenzene	95.1			67.0-138		11/28/2020 15:21	<u>WG1583520</u>
(S) 1,2-Dichloroethane-d4	116			70.0-130		11/28/2020 15:21	WG1583520

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	6.10		1.67	4.16	1	12/01/2020 12:10	WG1583818
C28-C40 Oil Range	21.0		0.285	4.16	1	12/01/2020 12:10	WG1583818
(S) o-Terphenyl	67.2			18.0-148		12/01/2020 12:10	WG1583818

SDG: L1289013

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	97.9		1	12/03/2020 00:15	WG1584487	Tc

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	85.7		9.40	20.4	1	12/04/2020 16:54	WG1586290

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0290	<u>B J</u>	0.0222	0.102	1	12/01/2020 11:01	WG1584424	
(S) a,a,a-Trifluorotoluene(FID)	96.4			77.0-120		12/01/2020 11:01	WG1584424	

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	11/28/2020 15:40	<u>WG1583520</u>
Toluene	U		0.00136	0.00522	1	11/28/2020 15:40	<u>WG1583520</u>
Ethylbenzene	U		0.000769	0.00261	1	11/28/2020 15:40	<u>WG1583520</u>
Total Xylenes	U		0.000918	0.00678	1	11/28/2020 15:40	<u>WG1583520</u>
(S) Toluene-d8	105			75.0-131		11/28/2020 15:40	<u>WG1583520</u>
(S) 4-Bromofluorobenzene	94.1			67.0-138		11/28/2020 15:40	<u>WG1583520</u>
(S) 1,2-Dichloroethane-d4	115			70.0-130		11/28/2020 15:40	<u>WG1583520</u>

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	4.09	1	12/01/2020 11:31	WG1583818
C28-C40 Oil Range	2.97	J	0.280	4.09	1	12/01/2020 11:31	WG1583818
(S) o-Terphenyl	66.7			18.0-148		12/01/2020 11:31	WG1583818

SDG: L1289013

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	94.7		1	12/03/2020 00:15	WG1584487	Tc

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	403		9.72	21.1	1	12/04/2020 17:03	WG1586290	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	quanta	mg/kg	mg/kg	2.10101	date / time	201011	
TPH (GC/FID) Low Fraction	0.0929	<u>B J</u>	0.0229	0.106	1	12/01/2020 14:00	WG1584636	
(S) a,a,a-Trifluorotoluene(FID)	103			77.0-120		12/01/2020 14:00	WG1584636	

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		0.000520	0.00111	1	11/28/2020 15:59	<u>WG1583520</u>
Toluene	U		0.00145	0.00557	1	11/28/2020 15:59	<u>WG1583520</u>
Ethylbenzene	U		0.000821	0.00278	1	11/28/2020 15:59	WG1583520
Total Xylenes	U		0.000980	0.00724	1	11/28/2020 15:59	<u>WG1583520</u>
(S) Toluene-d8	103			75.0-131		11/28/2020 15:59	WG1583520
(S) 4-Bromofluorobenzene	99.2			67.0-138		11/28/2020 15:59	<u>WG1583520</u>
(S) 1,2-Dichloroethane-d4	115			70.0-130		11/28/2020 15:59	<u>WG1583520</u>

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		1.70	4.23	1	12/01/2020 10:38	WG1583818
C28-C40 Oil Range	0.753	J	0.289	4.23	1	12/01/2020 10:38	WG1583818
(S) o-Terphenyl	64.0			18.0-148		12/01/2020 10:38	WG1583818

SDG: L1289013 DA1 12/07

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	(Ср)
Analyte	%			date / time		2	_	
Total Solids	91.0		1	12/03/2020 00:15	WG1584487	-	Тс	÷

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	54.1		10.1	22.0	1	12/04/2020 17:32	WG1586290	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	quantor	mg/kg	mg/kg	2.1000	date / time	<u></u>	
TPH (GC/FID) Low Fraction	0.104	<u>B J</u>	0.0238	0.110	1	12/01/2020 14:45	WG1584636	
(S) a,a,a-Trifluorotoluene(FID)	103			77.0-120		12/01/2020 14:45	WG1584636	

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		0.000559	0.00120	1	11/28/2020 16:18	<u>WG1583520</u>
Toluene	U		0.00156	0.00599	1	11/28/2020 16:18	<u>WG1583520</u>
Ethylbenzene	U		0.000882	0.00299	1	11/28/2020 16:18	WG1583520
Total Xylenes	U		0.00105	0.00778	1	11/28/2020 16:18	WG1583520
(S) Toluene-d8	103			75.0-131		11/28/2020 16:18	WG1583520
(S) 4-Bromofluorobenzene	89.3			67.0-138		11/28/2020 16:18	<u>WG1583520</u>
(S) 1,2-Dichloroethane-d4	112			70.0-130		11/28/2020 16:18	WG1583520

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		1.77	4.39	1	12/01/2020 10:51	WG1583818
C28-C40 Oil Range	0.500	J	0.301	4.39	1	12/01/2020 10:51	WG1583818
(S) o-Terphenyl	62.1			18.0-148		12/01/2020 10:51	WG1583818

SDG: L1289013

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	94.2		1	12/03/2020 00:15	WG1584487	Tc

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	43.4		9.76	21.2	1	12/04/2020 17:41	WG1586290		

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>	
Analyte	mg/kg	quanter	mg/kg	mg/kg	Dilation	date / time	Baten	
TPH (GC/FID) Low Fraction	0.0791	ВJ	0.0230	0.106	1	12/01/2020 15:07	WG1584636	
(S) a,a,a-Trifluorotoluene(FID)	107			77.0-120		12/01/2020 15:07	WG1584636	

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		0.000524	0.00112	1	11/28/2020 16:37	WG1583520
Toluene	U		0.00146	0.00561	1	11/28/2020 16:37	WG1583520
Ethylbenzene	U		0.000827	0.00281	1	11/28/2020 16:37	WG1583520
Total Xylenes	U		0.000988	0.00730	1	11/28/2020 16:37	WG1583520
(S) Toluene-d8	108			75.0-131		11/28/2020 16:37	WG1583520
(S) 4-Bromofluorobenzene	88.4			67.0-138		11/28/2020 16:37	WG1583520
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/28/2020 16:37	WG1583520

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	12/01/2020 11:05	WG1583818
C28-C40 Oil Range	0.491	J	0.291	4.24	1	12/01/2020 11:05	WG1583818
(S) o-Terphenyl	65.4			18.0-148		12/01/2020 11:05	WG1583818

SDG: L1289013

SAMPLE RESULTS - 20 L1289013

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	96.7		1	12/03/2020 00:15	WG1584487	Tc

Wet Chemistry by Method 300.0

Wet Chemistry	by Method 300).0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		⁴Cn
Chloride	22.4		9.51	20.7	1	12/04/2020 17:51	WG1586290	CII

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	Guanner	mg/kg	mg/kg	Dilution	date / time	baten	1
TPH (GC/FID) Low Fraction	0.148	B	0.0224	0.103	1	12/01/2020 15:29	WG1584636	
(S) a,a,a-Trifluorotoluene(FID)	104			77.0-120		12/01/2020 15:29	WG1584636	

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

	Decult (dry)	Qualifier	MDL (drai)	DDL (drai)	Dilution	Analysis	Datab
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Alidiysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000499	0.00107	1	11/28/2020 16:56	WG1583520
Toluene	U		0.00139	0.00534	1	11/28/2020 16:56	WG1583520
Ethylbenzene	U		0.000787	0.00267	1	11/28/2020 16:56	WG1583520
Total Xylenes	U		0.000940	0.00694	1	11/28/2020 16:56	WG1583520
(S) Toluene-d8	105			75.0-131		11/28/2020 16:56	WG1583520
(S) 4-Bromofluorobenzene	97.8			67.0-138		11/28/2020 16:56	WG1583520
(S) 1,2-Dichloroethane-d4	112			70.0-130		11/28/2020 16:56	WG1583520

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	4.14	1	12/01/2020 11:18	WG1583818
C28-C40 Oil Range	0.562	J	0.283	4.14	1	12/01/2020 11:18	WG1583818
(S) o-Terphenyl	68.7			18.0-148		12/01/2020 11:18	WG1583818

SDG: L1289013

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	99.4		1	12/03/2020 00:15	WG1584487	Tc

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	70.4		9.26	20.1	1	12/04/2020 18:00	WG1586290	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	Guanner	mg/kg	mg/kg	Dilution	date / time	Bateri	
TPH (GC/FID) Low Fraction	0.102	В	0.0218	0.101	1	12/01/2020 15:52	WG1584636	
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120		12/01/2020 15:52	WG1584636	

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		0.000473	0.00101	1	11/28/2020 23:57	<u>WG1583526</u>
Toluene	U		0.00132	0.00506	1	11/28/2020 23:57	<u>WG1583526</u>
Ethylbenzene	U		0.000746	0.00253	1	11/28/2020 23:57	WG1583526
Total Xylenes	U		0.000891	0.00658	1	11/28/2020 23:57	<u>WG1583526</u>
(S) Toluene-d8	104			75.0-131		11/28/2020 23:57	WG1583526
(S) 4-Bromofluorobenzene	97.9			67.0-138		11/28/2020 23:57	<u>WG1583526</u>
(S) 1,2-Dichloroethane-d4	100			70.0-130		11/28/2020 23:57	WG1583526

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		1.62	4.02	1	12/01/2020 14:43	WG1583819
C28-C40 Oil Range	U		0.276	4.02	1	12/01/2020 14:43	WG1583819
(S) o-Terphenyl	70.0			18.0-148		12/01/2020 14:43	WG1583819

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	93.6		1	12/03/2020 00:15	WG1584487	Tc

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		9.83	21.4	1	12/04/2020 18:10	WG1586290	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	Quanner	mg/kg	mg/kg	Bildtion	date / time	Bateri	
TPH (GC/FID) Low Fraction	0.124	B	0.0232	0.107	1	12/01/2020 16:14	WG1584636	
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		12/01/2020 16:14	WG1584636	

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		0.000531	0.00114	1	11/29/2020 00:15	WG1583526
Toluene	U		0.00148	0.00569	1	11/29/2020 00:15	WG1583526
Ethylbenzene	U		0.000839	0.00285	1	11/29/2020 00:15	WG1583526
Total Xylenes	U		0.00100	0.00740	1	11/29/2020 00:15	WG1583526
(S) Toluene-d8	107			75.0-131		11/29/2020 00:15	WG1583526
(S) 4-Bromofluorobenzene	100			67.0-138		11/29/2020 00:15	WG1583526
(S) 1,2-Dichloroethane-d4	96.5			70.0-130		11/29/2020 00:15	WG1583526

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	3.38	J	1.72	4.28	1	12/01/2020 14:56	WG1583819
C28-C40 Oil Range	8.47		0.293	4.28	1	12/01/2020 14:56	WG1583819
(S) o-Terphenyl	70.1			18.0-148		12/01/2020 14:56	WG1583819

SDG: L1289013

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	94.4		1	12/03/2020 00:02	WG1584488	Tc

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	10.7	J	9.75	21.2	1	12/06/2020 12:47	WG1587097	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	Quanner	mg/kg		Dilution	date / time	batch	
•	5 5		0 0	mg/kg			1001501000	
TPH (GC/FID) Low Fraction	0.167	B	0.0230	0.106	1	12/01/2020 16:36	<u>WG1584636</u>	
(S) a,a,a-Trifluorotoluene(FID)	104			77.0-120		12/01/2020 16:36	WG1584636	

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	11/29/2020 21:18	WG1583886
Toluene	U		0.00146	0.00560	1	11/29/2020 21:18	WG1583886
Ethylbenzene	U		0.000825	0.00280	1	11/29/2020 21:18	WG1583886
Total Xylenes	U		0.000985	0.00728	1	11/29/2020 21:18	<u>WG1583886</u>
(S) Toluene-d8	95.4			75.0-131		11/29/2020 21:18	WG1583886
(S) 4-Bromofluorobenzene	91.3			67.0-138		11/29/2020 21:18	<u>WG1583886</u>
(S) 1,2-Dichloroethane-d4	115			70.0-130		11/29/2020 21:18	WG1583886

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	5.70		1.71	4.24	1	12/01/2020 15:09	WG1583819
C28-C40 Oil Range	9.00		0.290	4.24	1	12/01/2020 15:09	WG1583819
(S) o-Terphenyl	63.3			18.0-148		12/01/2020 15:09	WG1583819

SDG: L1289013

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch		Ср
Analyte	%			date / time		2	,
Total Solids	97.2		1	12/03/2020 00:02	WG1584488	2.	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	U		9.46	20.6	1	12/06/2020 13:06	WG1587097

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg	dumer	mg/kg	mg/kg	Dilution	date / time	Baten
TPH (GC/FID) Low Fraction	0.135	B	0.0223	0.103	1	12/01/2020 16:59	WG1584636
(S) a,a,a-Trifluorotoluene(FID)	103			77.0-120		12/01/2020 16:59	WG1584636

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		0.000494	0.00106	1	11/29/2020 21:37	<u>WG1583886</u>
Toluene	U		0.00137	0.00529	1	11/29/2020 21:37	<u>WG1583886</u>
Ethylbenzene	U		0.000779	0.00264	1	11/29/2020 21:37	WG1583886
Total Xylenes	U		0.000931	0.00687	1	11/29/2020 21:37	WG1583886
(S) Toluene-d8	98.1			75.0-131		11/29/2020 21:37	WG1583886
(S) 4-Bromofluorobenzene	92.5			67.0-138		11/29/2020 21:37	<u>WG1583886</u>
(S) 1,2-Dichloroethane-d4	107			70.0-130		11/29/2020 21:37	WG1583886

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	2.75	J	1.66	4.11	1	12/01/2020 18:43	WG1583819
C28-C40 Oil Range	11.8		0.282	4.11	1	12/01/2020 18:43	WG1583819
(S) o-Terphenyl	77.3			18.0-148		12/01/2020 18:43	WG1583819

SDG: L1289013

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	C	Э
Analyte	%			date / time		2	_
Total Solids	96.7		1	12/03/2020 00:02	WG1584488	T	C

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		9.52	20.7	1	12/06/2020 13:15	WG1587097

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	quanter	mg/kg	mg/kg	Diration	date / time	Bateri	
TPH (GC/FID) Low Fraction	0.236	B	0.0225	0.103	1	12/01/2020 17:21	WG1584636	
(S) a,a,a-Trifluorotoluene(FID)	103			77.0-120		12/01/2020 17:21	WG1584636	

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	11/29/2020 21:56	<u>WG1583886</u>
Toluene	U		0.00139	0.00535	1	11/29/2020 21:56	<u>WG1583886</u>
Ethylbenzene	U		0.000788	0.00267	1	11/29/2020 21:56	<u>WG1583886</u>
Total Xylenes	U		0.000941	0.00695	1	11/29/2020 21:56	<u>WG1583886</u>
(S) Toluene-d8	95.1			75.0-131		11/29/2020 21:56	<u>WG1583886</u>
(S) 4-Bromofluorobenzene	90.3			67.0-138		11/29/2020 21:56	<u>WG1583886</u>
(S) 1,2-Dichloroethane-d4	103			70.0-130		11/29/2020 21:56	WG1583886

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	12/01/2020 17:02	WG1583819
C28-C40 Oil Range	1.16	J	0.283	4.14	1	12/01/2020 17:02	WG1583819
(S) o-Terphenyl	96.5			18.0-148		12/01/2020 17:02	WG1583819

SDG: L1289013

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch		2
Analyte	%			date / time		2	
Total Solids	98.2		1	12/03/2020 00:02	WG1584488	Tc	2

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		9.37	20.4	1	12/06/2020 13:25	WG1587097

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.104	B	0.0221	0.102	1	12/01/2020 18:12	WG1584636	
(S) a,a,a-Trifluorotoluene(FID)	103			77.0-120		12/01/2020 18:12	WG1584636	

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		0.000484	0.00104	1	11/29/2020 22:15	<u>WG1583886</u>
Toluene	U		0.00135	0.00518	1	11/29/2020 22:15	<u>WG1583886</u>
Ethylbenzene	U		0.000764	0.00259	1	11/29/2020 22:15	<u>WG1583886</u>
Total Xylenes	U		0.000912	0.00674	1	11/29/2020 22:15	<u>WG1583886</u>
(S) Toluene-d8	93.7			75.0-131		11/29/2020 22:15	<u>WG1583886</u>
(S) 4-Bromofluorobenzene	90.6			67.0-138		11/29/2020 22:15	<u>WG1583886</u>
(S) 1,2-Dichloroethane-d4	103			70.0-130		11/29/2020 22:15	WG1583886

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	6.44		1.64	4.07	1	12/01/2020 17:53	WG1583819
C28-C40 Oil Range	21.5		0.279	4.07	1	12/01/2020 17:53	WG1583819
(S) o-Terphenyl	68.7			18.0-148		12/01/2020 17:53	WG1583819

SDG: L1289013 DATE/TIME: 12/07/20 19:37

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	98.1		1	12/03/2020 00:02	WG1584488	Tc

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	14.7	J	9.38	20.4	1	12/06/2020 13:34	WG1587097		

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	quantor	mg/kg	mg/kg	2.10101	date / time	<u></u>	
TPH (GC/FID) Low Fraction	0.0433	BJ	0.0221	0.102	1	12/01/2020 18:35	WG1584636	
(S) a,a,a-Trifluorotoluene(FID)	104			77.0-120		12/01/2020 18:35	WG1584636	

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		0.000486	0.00104	1	11/29/2020 22:34	<u>WG1583886</u>
Toluene	U		0.00135	0.00520	1	11/29/2020 22:34	<u>WG1583886</u>
Ethylbenzene	U		0.000766	0.00260	1	11/29/2020 22:34	WG1583886
Total Xylenes	U		0.000915	0.00676	1	11/29/2020 22:34	<u>WG1583886</u>
(S) Toluene-d8	94.8			75.0-131		11/29/2020 22:34	WG1583886
(S) 4-Bromofluorobenzene	90.4			67.0-138		11/29/2020 22:34	<u>WG1583886</u>
(S) 1,2-Dichloroethane-d4	106			70.0-130		11/29/2020 22:34	WG1583886

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	12/01/2020 17:40	WG1583819
C28-C40 Oil Range	5.94		0.279	4.08	1	12/01/2020 17:40	WG1583819
(S) o-Terphenyl	74.4			18.0-148		12/01/2020 17:40	WG1583819

SDG: L1289013

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch		Ср
Analyte	%			date / time		2	
Total Solids	97.5		1	12/03/2020 00:02	WG1584488		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	U		9.43	20.5	1	12/06/2020 13:44	WG1587097

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	Quaimer	mg/kg	mg/kg	Dilution	date / time	bateri	
TPH (GC/FID) Low Fraction	0.110	В	0.0223	0.103	1	12/01/2020 18:57	WG1584636	
(S) a,a,a-Trifluorotoluene(FID)	102	-		77.0-120		12/01/2020 18:57	WG1584636	

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		0.000491	0.00105	1	11/29/2020 22:53	<u>WG1583886</u>
Toluene	U		0.00137	0.00526	1	11/29/2020 22:53	<u>WG1583886</u>
Ethylbenzene	U		0.000775	0.00263	1	11/29/2020 22:53	WG1583886
Total Xylenes	U		0.000925	0.00683	1	11/29/2020 22:53	<u>WG1583886</u>
(S) Toluene-d8	96.1			75.0-131		11/29/2020 22:53	WG1583886
(S) 4-Bromofluorobenzene	91.7			67.0-138		11/29/2020 22:53	<u>WG1583886</u>
(S) 1,2-Dichloroethane-d4	105			70.0-130		11/29/2020 22:53	WG1583886

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	4.10	1	12/01/2020 17:15	<u>WG1583819</u>
C28-C40 Oil Range	5.20		0.281	4.10	1	12/01/2020 17:15	<u>WG1583819</u>
(S) o-Terphenyl	86.4			18.0-148		12/01/2020 17:15	WG1583819

SDG: L1289013

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	93.4		1	12/03/2020 00:02	WG1584488	Tc

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		9.85	21.4	1	12/06/2020 13:53	WG1587097

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	quantor	mg/kg	mg/kg	2	date / time	<u></u>	
TPH (GC/FID) Low Fraction	0.382	B	0.0232	0.107	1	12/01/2020 21:38	WG1584636	
(S) a,a,a-Trifluorotoluene(FID)	103			77.0-120		12/01/2020 21:38	WG1584636	

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		0.000533	0.00114	1	11/29/2020 11:38	<u>WG1583756</u>
Toluene	U		0.00148	0.00571	1	11/29/2020 11:38	<u>WG1583756</u>
Ethylbenzene	U		0.000841	0.00285	1	11/29/2020 11:38	<u>WG1583756</u>
Total Xylenes	U		0.00100	0.00742	1	11/29/2020 11:38	<u>WG1583756</u>
(S) Toluene-d8	111			75.0-131		11/29/2020 11:38	WG1583756
(S) 4-Bromofluorobenzene	90.5			67.0-138		11/29/2020 11:38	<u>WG1583756</u>
(S) 1,2-Dichloroethane-d4	103			70.0-130		11/29/2020 11:38	WG1583756

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		1.72	4.28	1	12/01/2020 17:27	WG1583819
C28-C40 Oil Range	1.19	J	0.293	4.28	1	12/01/2020 17:27	WG1583819
(S) o-Terphenyl	91.3			18.0-148		12/01/2020 17:27	WG1583819

SDG: L1289013 DAT 12/07/

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Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY

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Method Blank (MB)

(MB) R3599456-1 12/	02/20 03:37			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

L1289009-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1289009-12 12/02	/20 03:37 • (Dl	JP) R3599456-	3 12/02/20	0 03:37		
	Original Resu	It DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	95.6	95.7	1	0.169		10

Laboratory Control Sample (LCS)

(LCS) R3599456-2 12	/02/20 03:37				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

SDG: L1289013 DATE/TIME: 12/07/20 19:37 PAGE: 40 of 61

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Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY L1289013-03,04,05,06,07,08,09,10,11,12

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Method Blank (MB)

(MB) R3599921-1 1	2/02/20 23:50					
	MB Result	MB Qualifier	MB MDL	MB RDL		
Analyte	%		%	%		
Total Solids	0.00100					

L1289013-03 Original Sample (OS) • Duplicate (DUP)

L1289013-03 Origi	ginal Sample	(OS) • Du	plicate (DUP)		
(OS) L1289013-03 12/02/	2/20 23:50 • (DUP) R3599921-3	3 12/02/20) 23:50		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	93.9	94.9	1	1.07		10

Laboratory Control Sample (LCS)

(LCS) R3599921-2 12/	_CS) R3599921-2 12/02/20 23:50									
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier					
Analyte	%	%	%	%						
Total Solids	50.0	50.0	100	85.0-115						

SDG: L1289013

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Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY L1289013-13,14,15,16,17,18,19,20,21,22

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Method Blank (MB)

Method Blank (MB)								
(MB) R3599930-1 12/03/20 00:15								
	MB Result	MB Qualifier	MB MDL	MB RDL		2		
Analyte	%		%	%		Tc		
Total Solids	0.000				L			
						³ Ss		

L1289013-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1289013-13 12	/03/20 00:15 • (DU	JP) R3599930-3	12/03/20	00:15		
	Original Res	sult DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	92.3	92.5	1	0.228		10

Laboratory Control Sample (LCS)

(LCS) R3599930-2 12/0	3/20 00:15				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

SDG: L1289013

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Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY L1289013-23,24,25,26,27,28,29

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Method Blank (MB)

(MB) R3599925-1 12/03/20 00:02									
	MB Result	MB Qualifier	MB MDL	MB RDL		2			
Analyte	%		%	%		-			
Total Solids	0.000								
						3			

L1289013-24 Original Sample (OS) • Duplicate (DUP)

L1289013-24 O	riginal Sample	e (OS) • Du	plicate ((DUP)				4
(OS) L1289013-24 12	/03/20 00:02 • (DU	JP) R3599925	-3 12/03/2	0 00:02				Cn
	Original Resu	It DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits		⁵ Sr
Analyte	%	%		%		%		5
Total Solids	97.2	97.2	1	0.0287		10		6

Laboratory Control Sample (LCS)

(LCS) R3599925-2 12/03/20 00:02					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

SDG: L1289013

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Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY L1289013-01,02

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Method Blank (MB)

(MB) R3599916-1 12/03/20 01:24							
	MB Result	MB Qualifier	MB MDL	MB RDL			
Analyte	mg/kg		mg/kg	mg/kg			
Chloride	U		9.20	20.0			

L1289009-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1289009-04 12/03/2	20 02:21 • (DUP) R3599916-3	12/03/20	02:30		
	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

L1289013-02 Original Sample (OS) • Duplicate (DUP)

L1289013-02 Original Sample (OS) • Duplicate (DUP)								
(OS) L1289013-02	12/03/20 05:59 • (DUF	P) R3599916-6	6 12/03/20	06:09				
	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		

Laboratory Control Sample (LCS)

(LCS) R3599916-2 12/03/	LCS) R3599916-2 12/03/20 01:33								
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier				
Analyte	mg/kg	mg/kg	%	%					
Chloride	200	200	100	90.0-110					

L1289009-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1289009-12 12/03/20 04:05 • (MS) R3599916-4 12/03/20 04:15 • (MSD) R3599916-5 12/03/20 04:24												
	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	%	%		%			%	%
Chloride	523	61.3	584	584	100	100	1	80.0-120			0.00890	20

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PROJECT: 212C-MD-02334

SDG: L1289013

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RAG 9 45 8 8 20 8 2/2021 11:22:10 AM

Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY L1289013-03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20,21,22

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Method Blank (MB)

(MB) R3600752-1 12/04/20 13:26						
	MB Result	MB Qualifier	MB MDL	MB RDL		
Analyte	mg/kg		mg/kg	mg/kg		
Chloride	U		9.20	20.0		

L1289013-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1289013-04 12/04/	/20 14:31 • (DUP)	R3600752-5	12/04/20	14:40		
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	65.9	67.4	1	2.30		20

L1289013-22 Original Sample (OS) • Duplicate (DUP)

L1289013-22 Original Sample (OS) • Duplicate (DUP)									
(OS) L1289013-22 12/04/2	5) L1289013-22 12/04/20 18:10 • (DUP) R3600752-6 12/04/20 18:19								
	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			

Laboratory Control Sample (LCS)

(LCS) R3600752-2 12/04	/20 13:35				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	195	97.5	90.0-110	

L1289013-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1289013-03 12/04/20 14:03 • (MS) R3600752-3 12/04/20 14:12 • (MSD) R3600752-4 12/04/20 14:21												
	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	%	%		%			%	%
Chloride	533	28.1	560	555	99.9	98.9	1	80.0-120			0.993	20

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PROJECT: 212C-MD-02334

SDG: L1289013

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Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY L1289013-23,24,25,26,27,28,29

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Method Blank (MB)

(MB) R3600837-1 12/06/20 12:02										
	MB Result	MB Qualifier	MB MDL	MB RDL						
Analyte	mg/kg		mg/kg	mg/kg						
Chloride	U		9.20	20.0						

L1289013-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1289013-23 12/06/2	0 12:47 • (DUP)	R3600837-3	12/06/20	12:56					
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits			
Analyte	mg/kg	mg/kg		%		%			
Chloride	10.7	10.3	1	3.59	J	20			

Original Sample (OS) • Duplicate (DUP)

Original Sampl	le (OS) • Duplica	ate (DUP)					⁷ Gl	
(OS) • (DUP) R3600	0837-6 12/06/20 17:03	3						
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	⁸ Al	
Analyte		mg/kg		%		%		
Chloride		1140	10	1.84		20	⁹ Sc	

Laboratory Control Sample (LCS)

(LCS) R3600837-2 12/06	LCS) R3600837-2 12/06/20 12:11										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier						
Analyte	mg/kg	mg/kg	%	%							
Chloride	200	197	98.6	90.0-110							

L1290304-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1290304-02 12/06/2	OS) L1290304-02 12/06/20 14:41 • (MS) R3600837-4 12/06/20 14:50 • (MSD) R3600837-5 12/06/20 15:00													
	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	504	510	101	102	1	80.0-120			1.18	20		

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	ConocoPhillips - Tetra Te	ech

PROJECT: 212C-MD-02334

SDG: L1289013

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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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0 12:22				
MB Result	MB Qualifier	MB MDL	MB RDL	
mg/kg		mg/kg	mg/kg	
0.0320	J	0.0217	0.100	
99.6			77.0-120	
<i>'</i>	0 12:22 MB Result mg/kg 0.0320	0 12:22 MB Result MB Qualifier mg/kg 0.0320 J	0 12:22 MB Result <u>MB Qualifier</u> MB MDL mg/kg mg/kg 0.0320 <u>J</u> 0.0217	MB Result MB Qualifier MB MDL MB RDL mg/kg mg/kg mg/kg mg/kg mg/kg 0.0320 J 0.0217 0.100

Laboratory Control Sample (LCS)

(LCS) R3598783-1 11/30/2	20 11:40				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	6.17	112	72.0-127	
(S) a.a.a-Trifluorotoluene(FID)			109	77.0-120	

L1289013-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1289013-03 11/30/2	(OS) L1289013-03 11/30/20 18:42 • (MS) R3598783-3 11/30/20 20:26 • (MSD) R3598783-4 11/30/20 20:46												
	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	5.86	U	5.12	5.60	87.5	95.6	1	10.0-151			8.94	28	
(S) a,a,a-Trifluorotoluene(FID)					103	104		77.0-120					

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

QUALITY CONTROL SUMMARY L1289013-08,09,10,11,12,13,14,15,16

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Method Blank (MB)

)				
(MB) R3598967-2 12/01/2	20 03:26				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
TPH (GC/FID) Low Fraction	0.0329	J	0.0217	0.100	
(S) a,a,a-Trifluorotoluene(FID)	97.6			77.0-120	

Laboratory Control Sample (LCS)

(LCS) R3598967-1 12/01/2	20 02:44				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	5.11	92.9	72.0-127	
(S) a.a.a-Trifluorotoluene(FID)			106	77.0-120	

L1288987-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1288987-17 12/01/2	DS) L1288987-17 12/01/20 04:27 • (MS) R3598967-3 12/01/20 11:22 • (MSD) R3598967-4 12/01/20 11:43												
	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	148	1.68	172	168	115	112	25	10.0-151			2.33	28	
(S) a,a,a-Trifluorotoluene(FID)					118	117		77.0-120					

SDG: L1289013 DATE/TIME: 12/07/20 19:37

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

QUALITY CONTROL SUMMARY L1289013-17,18,19,20,21,22,23,24,25,26,27,28,29

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Method Blank (MB)

0 13:06					
MB Result	MB Qualifier	MB MDL	MB RDL		
mg/kg		mg/kg	mg/kg		
0.0493	J	0.0217	0.100		
103			77.0-120		
	0 13:06 MB Result mg/kg 0.0493	0 13:06 MB Result MB Qualifier mg/kg 0.0493 J	MB Result mg/kg MB Qualifier MB MDL mg/kg 0.0493 J	MB Result MB Qualifier MB MDL MB RDL mg/kg mg/kg mg/kg mg/kg 0.0493 J 0.0217 0.100	MB Result mg/kg MB MDL mg/kg MB RDL mg/kg 0.0493 J 0.0217 0.100

Laboratory Control Sample (LCS)

(LCS) R3599233-1 12/01/2	20 12:21				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	4.94	89.8	72.0-127	
(S) a.a.a-Trifluorotoluene(FID)			104	77.0-120	

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QUALITY CONTROL SUMMARY 1289013-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20

Method Blank (MB)

(MB) R3598620-3 11/28/20	09:09			
	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	104			75.0-131
(S) 4-Bromofluorobenzene	94.0			67.0-138
(S) 1,2-Dichloroethane-d4	97.0			70.0-130

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

(LCS) R3598620-1 11/28/	20 07:53 • (LCS	D) R3598620	-2 11/28/20 08	12							
	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	%	%	%			%	%	
Benzene	0.125	0.124	0.125	99.2	100	70.0-123			0.803	20	
Ethylbenzene	0.125	0.125	0.125	100	100	74.0-126			0.000	20	
Toluene	0.125	0.111	0.109	88.8	87.2	75.0-121			1.82	20	
Xylenes, Total	0.375	0.378	0.373	101	99.5	72.0-127			1.33	20	
(S) Toluene-d8				96.6	96.6	75.0-131					
(S) 4-Bromofluorobenzene				103	106	67.0-138					
(S) 1,2-Dichloroethane-d4				125	127	70.0-130					

L1289013-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1289013-20 11/28/20 16:56 • (MS) R3598620-4 11/28/20 17:15 • (MSD) R3598620-5 11/28/20 17:34												
	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	%	%		%			%	%
Benzene	0.134	U	0.0977	0.0846	73.2	63.4	1	10.0-149			14.4	37
Ethylbenzene	0.134	U	0.108	0.0863	80.8	64.6	1	10.0-160			22.2	38
Toluene	0.134	U	0.0983	0.0770	73.6	57.7	1	10.0-156			24.3	38
Xylenes, Total	0.401	U	0.295	0.261	73.6	65.1	1	10.0-160			12.3	38
(S) Toluene-d8					102	99.7		75.0-131				
(S) 4-Bromofluorobenzene					94.8	105		67.0-138				
(S) 1,2-Dichloroethane-d4					117	121		70.0-130				

SDG: L1289013 DATE/TIME: 12/07/20 19:37

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QUALITY CONTROL SUMMARY L1289013-21,22

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Method Blank (MB)

Method Blank (MB))				
(MB) R3598956-2 11/28/2	20 18:36				
	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	107			75.0-131	
(S) 4-Bromofluorobenzene	102			67.0-138	
(S) 1,2-Dichloroethane-d4	100			70.0-130	

Laboratory Control Sample (LCS)

(LCS) R3598956-1 11/28	3/20 17:40					-
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	[′] GI
Analyte	mg/kg	mg/kg	%	%		
Benzene	0.125	0.121	96.8	70.0-123		8
Ethylbenzene	0.125	0.123	98.4	74.0-126		A
Toluene	0.125	0.126	101	75.0-121		9
Xylenes, Total	0.375	0.391	104	72.0-127		Sc
(S) Toluene-d8			104	75.0-131		
(S) 4-Bromofluorobenzene	2		104	67.0-138		
(S) 1,2-Dichloroethane-d4			103	70.0-130		

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QUALITY CONTROL SUMMARY

ONE LAB. NAT Rage 81 of 25

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Method Blank (MB)

(MB) R3598831-2 11/29/	20 06:49				
	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	90.8			67.0-138	
(S) 1,2-Dichloroethane-d4	106			70.0-130	

Laboratory Control Sample (LCS)

(LCS) R3598831-1 11/29/2	20 05:52					E
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	ľ
Analyte	mg/kg	mg/kg	%	%		L
Benzene	0.125	0.138	110	70.0-123		8
Ethylbenzene	0.125	0.129	103	74.0-126		l
Toluene	0.125	0.134	107	75.0-121		6
Xylenes, Total	0.375	0.385	103	72.0-127		
(S) Toluene-d8			106	75.0-131		L
(S) 4-Bromofluorobenzene			91.3	67.0-138		
(S) 1,2-Dichloroethane-d4			114	70.0-130		

L1289029-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1289029-03 11/29/2	(OS) L1289029-03 11/29/20 15:45 • (MS) R3598831-3 11/29/20 16:23 • (MSD) R3598831-4 11/29/20 16:42											
	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	%	%		%			%	%
Benzene	1.64	0.0451	1.84	1.31	109	76.9	13	10.0-149			33.5	37
Ethylbenzene	1.64	0.268	2.06	1.37	109	67.0	13	10.0-160		<u>J3</u>	40.2	38
Toluene	1.64	0.354	2.14	1.47	109	68.0	13	10.0-156			37.1	38
Xylenes, Total	4.93	1.39	6.61	4.95	106	72.2	13	10.0-160			28.6	38
(S) Toluene-d8					108	103		75.0-131				
(S) 4-Bromofluorobenzene					102	102		67.0-138				
(S) 1,2-Dichloroethane-d4					113	118		70.0-130				

SDG: L1289013 DATE/TIME: 12/07/20 19:37

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Method Blank (MB)

(MB) R3598683-3 11/29/2	20 18:39				
	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	96.4			75.0-131	
(S) 4-Bromofluorobenzene	91.6			67.0-138	
(S) 1,2-Dichloroethane-d4	106			70.0-130	

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

(LCS) R3598683-1 11/29/2	20 17:23 • (LCSE) R3598683-2	2 11/29/20 17:42	2							- 6
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	ŕ
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%	
Benzene	0.125	0.110	0.112	88.0	89.6	70.0-123			1.80	20	٤
Ethylbenzene	0.125	0.105	0.110	84.0	88.0	74.0-126			4.65	20	
Toluene	0.125	0.102	0.103	81.6	82.4	75.0-121			0.976	20	
Xylenes, Total	0.375	0.289	0.295	77.1	78.7	72.0-127			2.05	20	ľ
(S) Toluene-d8				89.3	87.9	75.0-131					L
(S) 4-Bromofluorobenzene				96.4	96.8	67.0-138					
(S) 1,2-Dichloroethane-d4				115	114	70.0-130					

L1289013-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1289013-23 11/29/2	(OS) L1289013-23 11/29/20 21:18 • (MS) R3598683-4 11/30/20 03:36 • (MSD) R3598683-5 11/30/20 03:55											
	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	%	%		%			%	%
Benzene	0.140	U	0.127	0.127	90.4	90.4	1	10.0-149			0.000	37
Ethylbenzene	0.140	U	0.123	0.122	88.0	87.2	1	10.0-160			0.913	38
Toluene	0.140	U	0.124	0.122	88.8	87.2	1	10.0-156			1.82	38
Xylenes, Total	0.420	U	0.329	0.296	78.4	70.4	1	10.0-160			10.8	38
(S) Toluene-d8					92.7	93.2		75.0-131				
(S) 4-Bromofluorobenzene					91.0	92.4		67.0-138				
(S) 1,2-Dichloroethane-d4					107	105		70.0-130				

SDG: L1289013 DATE/TIME: 12/07/20 19:37

Semi-Volatile Organic Compounds (GC) by Method 8015

QUALITY CONTROL SUMMARY L1289013-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20

Method Blank (MB)

	(D)				
(MB) R3599131-1 12/01/2	20 07:49				-
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
C10-C28 Diesel Range	U		1.61	4.00	1
C28-C40 Oil Range	U		0.274	4.00	
(S) o-Terphenyl	68.2			18.0-148	

Laboratory Control Sample (LCS)

(LCS) R3599131-2 12/01	/20 08:02					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	
Analyte	mg/kg	mg/kg	%	%		
C10-C28 Diesel Range	50.0	36.4	72.8	50.0-150		
(S) o-Terphenyl			74.2	18.0-148		

L1289013-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1289013-01 12/01/20	OS) L1289013-01 12/01/20 08:15 • (MS) R3599131-3 12/01/20 08:28 • (MSD) R3599131-4 12/01/20 08:41											
	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	51.9	U	35.0	35.4	67.4	68.2	1	50.0-150			1.18	20
(S) o-Terphenyl					66.5	68.0		18.0-148				

Semi-Volatile Organic Compounds (GC) by Method 8015

QUALITY CONTROL SUMMARY L1289013-21,22,23,24,25,26,27,28,29

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Method Blank (MB)

	10)				
(MB) R3598892-1 12/0	1/20 04:17				
	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	U		0.274	4.00	
(S) o-Terphenyl	73.4			18.0-148	

Laboratory Control Sample (LCS)

(LCS) R3598892-2 12/0	01/20 04:29				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	42.8	85.6	50.0-150	
(S) o-Terphenyl			93.5	18.0-148	

L1288656-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

L1288656-06 Of	ginai Sampie	$e(OS) \cdot Mat$	rix Spike	$(NS) \cdot Natr$	ix Spike L	puplicate (iv	15D)						
(OS) L1288656-06 12/0	01/20 14:31 • (MS) F	3598892-3 12	2/01/20 14:05	• (MSD) R3598	892-4 12/01/2	20 14:18							<i>,</i>
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	9
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%	Sc
C10-C28 Diesel Range	48.8	U	44.0	35.9	90.2	73.4	1	50.0-150		<u>J3</u>	20.3	20	L
(S) o-Terphenyl					90.0	77.8		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

Abbreviations and	a 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

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

SDG: L1289013 DATE/TIME: 12/07/20 19:37

Received by OCD: 9/2/2021 11:22:10 AMCCREDITATIONS & 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	
	AZ0612	
Arizona		
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	

lebraska	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
Texas⁵	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: 3/17/2023 8:22:35 AM ConocoPhillips - Tetra Tech **PROJECT:** 212C-MD-02334

SDG: L1289013 DATE/TIME: 12/07/20 19:37 PAGE: 57 of 61 Received by OCD: 9/2/2021 11:22:10 AM Analysis Request of Chain of Custody Record

T	Tetra Tech, Inc.		i.			Tel	(432	Texas 2) 682- 2) 682-	4559)											において			12				
Client Name:	Conoco Phillips	Site Manage	r:	Chri	stian	Llull		i en el							10							1.1.1	UES					
Project Name:	Vac Abo 13-3 Release (1RP-1409)	Contact Info			ail: chi ne: (5			l@tetra 1667	itech	n.com			1	T	(C	irc	le	or 	Sp 	bec 	:iiiy	/ M	etn	10d		o.) 	Ì	11
Project Location: (county, state)	Lea County, New Mexico	Project #:		2120	C-MD	-0233	34, 1	fask No	o. 14																			
nvoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 7	9701			čą.								1	5												l list)		
Receiving Laboratory:	Pace Analytical	Sampler Sig	nature:		Joe T	yler	100		1	ĵ.	in.		NOUN O		Cr Pb Se Ha	o Se Hg										attached		
Comments: COPTET	RA Acctnum	5										8260B	C35)	HO - OHO	BO	S S					0C/625				TDS	try (see a		
		SAMP	LING	MA	TRIX	PR		RVATI	VE	SF	(N/A)	BTEX		- 0H9	As Ba			atiles	1.01	m	Vol. 82700	8			1	Chemis	latroc	
L12 84013 LAB #	SAMPLE IDENTIFICATION	YEAR: 2020		œ						CONTAINERS		8021B	TX1005 (Ext to	-	Ad	AC		Semi Volatiles			Semi. V	PCB's 8082 / 608 NORM	(Asbestos)	30	Sulf	Water Mater	8015R	
(LAB USE)		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE		# CON	FILTERED		T HHT	PAH 8	Total Metals	TCLP N	TCLP \	TCLP S	RCI	GC/MS Vol.	GC/MS	PCB's	PLM (A	Chloride	Chloride	General Anion/Ca	TPH 80	
-0)	BH-1 (0'-1')	11/17/20	1000		X			Х		1	Ν	Х		×				-17-						X	a la			
02	BH-1 (2'-3')	11/17/20	1010		x	2.4	1	X		1	Ν	Х		X										X	-			
03	BH-1 (4'-5')	11/17/20	1020		X	4		x		1	Ν	X		x										X				
04	BH-1 (6'-7')	11/17/20	1030		x	1 64		x		1	Ν	×		x										X				
05	BH-1 (9'-10')	11/17/20	1040		x			х		1	Ν	X		x										X	-			
06	BH-1 (14'-15')	11/17/20	1100		X			Х		1	Ν	X		X					-			1		X				120
07	BH-1 (19'-20')	11/17/20	1130		X			x		1	Ν	X		X										X	die .			
08	BH-2 (0'-1')	11/17/20	1200		X			x	1.1	1	Ν	Х		×										X	94			
09	BH-2 (2'-3')	11/17/20	1210		X		1	X		1	N	X		X	1	1					4			X				
10	BH-2 (4'-5')	11/17/20	1220		X		-	X		1	N	X		X										X				
Relinquished by:		Received by Received by	JE.	J	/	Da [[-2 Da	20	20	>	Time (2 Time	w	>	C	BU	Y		H	-		Indar		ne Da	v 24	4 hr.	481	ır. 7:	2 hr.	
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Ŧ	Tetra Tech, Inc.			9		Midla Tel	nd, T 432	Street, Texas 79) 682-45 2) 682-39	970 559	1	0																の事業者にある
Client Name:	Conoco Phillips	Site Manage	r:	Christ	ian L	lull				in de la composition de la composition de la composition de la composition de la comp					~							UE					
Project Name:	Vac Abo 13-3 Release (1RP-1409)	Contact Info	:	Email: Phone				@tetrate 667	ech	.com			1				e oi 		pe 	сіт 	y IV 	leth 	100		s.) 		1
Project Location: (county, state)	Lea County, New Mexico	Project #:		212C-	MD-	0233	4, Ta	ask No.	14																		
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 797	01		1 .									10											1 and	(1SII		
Receiving Laboratory:	Pace Analytical	Sampler Sig	nature:	Jo	е Ту	ler				1			- MRG			Se Hg									see allached		
Comments: COPTE	TRA Acctnum			97. 2								3260B	C35)		8	Cd Cr Pb			4	C/625							
206.12		SAMP	LING	MAT	RIX			RVATIV	E	RS	(N/N)	BTEX 8			As Ba (As Ba	atiles		60B / 62	Vol. 8270C/	608			ate TDS	ulance		
LI 284613 LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	YEAR: 2020 DATE	TIME	WATER		HCL	HNO ₃	NONE		# CONTAINERS	FILTERED (Y.	BTEX 8021B	TPH TX1005 (Ext to TPH 8015M (GBO -	8270C	Total Metals Ag	TCLP Metals Ag	TCLP Volatiles TCL P Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. V	8082 /	NORM PLM (Asbestos)	Chloride 300.0	Chloride Sulfate	General water chemistry Anion/Cation Balance	TPH 8015R	
11	BH-2 (6'-7')	11/17/20	1230	×	_			x	T	1	Ν	Х)	(X				Γ
12	BH-2 (9'-10')	11/17/20	1240	×				x		1	Ν	x)	(1.10				Х				
13	BH-2 (14'-15')	11/17/20	1300	×				x		1	Ν	X)	(X	-			
14	BH-2 (19'-20')	11/17/20	1330	×	(x		1	Ν	X)	(1			-			2	X				
19	BH-3 (0'-1')	11/17/20	1400	×	(x		1	Ν	х)	(X				
16	BH-3 (2'-3')	11/17/20	1410	>	(x		1	Ν	Х)	(5							X				
17	BH-3 (4'-5')	11/17/20	1420	>	(x		1	Ν	Х)	(-				X				
18	BH-3 (6'-7')	11/17/20	1430	>	<			x		1	Ν	Х)	(X	Z.			1
14	BH-3 (9'-10')	11/17/20	1440	>	(x		1	Ν	Х)	(X				1
20	BH-3 (14'-15')	11/17/20	1500	L ?				x		1	Ν	×		<									X			-	L
Relinquished by:	Date: Time: 11-20-20 2:00 Date: Time: 11-20-20 14:30	Received by Received by	the)		Dat Dat Dat	~2 e:		12	Time: Time:		San	LAI O	NL	Y			St RI	anda USH:	: Sa				48 h	r. 721	ır.	
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Analysis Request of Chain of Custody Record

901 West Wall Street, Suite 100 Tetra Tech, Inc. Midland, Texas 79701 TŁ Tel (432) 682-4559 Fax (432) 682-3946 ANALYSIS REQUEST **Client Name:** Conoco Phillips Site Manager: **Christian Llull** (Circle or Specify Method No.) Email: christian.llull@tetratech.com **Project Name:** Vac Abo 13-3 Release (1RP-1409) Contact Info: Phone: (512) 338-1667 **Project Location:** Lea County, New Mexico Project #: 212C-MD-02334, Task No. 14 (county, state) Accounts Payable Invoice to: list) 901 West Wall Street, Suite 100 Midland, Texas 79701 - MRO) attached 무 PH Sampler Signature: Joe Tyler **Receiving Laboratory:** Pace Analytical Se Sel ORO -Cd Cr Pb Cd Cr Pb see **COPTETRA** Acctnum Comments: DRO TX1005 (Ext to C35) 8270C/ TDS 624 Chemistry CLP Metals Ag As Ba Ag As Ba PRESERVATIVE Ice GRO -SAMPLING MATRIX 8260B / BTE (N/A) CONTAINERS Sulfate METHOD 21284013 on/Cation Balar Semi. Vol. 608 LM (Asbestos) 300.0 YEAR: 2020 ieral Water 8021B 8015M (8082 / **FILTERED** 8270C SAMPLE IDENTIFICATION Metals C/MS Vol. LAB # 8015R Vola WATER loride ide NONE /MS AN LAB USE HNO3 3's SOIL TEX CLP HOLD TIME DATE otal Hd AH 4CL CE ONLY X X N X X BH-3 (19'-20') 11/17/20 1530 21 1 X 22 X X N X X X 1 BH-4 (0'-1') 11/17/20 1600 23 X X X Х BH-4 (3'-4') 11/17/20 1610 N X 24 11/17/20 1630 X X N X X BH-5 (0'-1') 1 X 25 X 1640 X X N X X BH-5 (3'-4') 11/17/20 1 26 1700 X X N X X X BH-6 (0'-1') 11/17/20 1 27 X X X BH-6 (3'-4') 11/17/20 1710 1 N X X 28 BH-7 (0'-1') 11/17/20 1730 Х X 1 N X X 29 X X X BH-7 (3'-4') 11/17/20 1740 1 N X X Date: Date Time: REMARKS: Relinquished by: Time: Received b LAB USE Free Tyle X Standard 11-20-20 2:0 ONLY -20-20 20 RUSH: Same Day 24 hr. 48 hr. 72 hr. Received by: Relinguished by Date: Time: Date: Time: Sample Temperature 3 ê Rush Charges Authorized Relinquished by: Received by: Date: Time: Special Report Limits or TRRP Report 09:30 21 12020 (Circle) HAND DELIVERED FEDEX UPS Tracking #: ORIGINAL COPY

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RAD SCREEN: <0.5 mR/hr

MAB 20-12=21

Pace Analytical National Center for Testing & In	novation
Cooler Receipt Form	
Client: COPTETRA	L1289013
Cooler Received/Opened On: 11 / 2/ / 20 Temperature	re: 2.2
Received By: Gisely Quiles	
Signature: While Mile	
A MARKET REAL PROPERTY AND	
Receipt Check List NP	Yes No
COC Seal Present / Intact?	
COC Signed / Accurate?	/
Bottles arrive intact?	1
Correct bottles used?	1
Sufficient volume sent?	
If Applicable	The straight of the second
VOA Zero headspace?	
Preservation Correct / Checked?	The Area of Mark 1995

Received by OCD: 9/2/2021 11:22:10 AM



ANALYTICAL REPORT January 18, 2021

Revised Report

ConocoPhillips - Tetra Tech

Sample Delivery Group: Samples Received: Project Number: Description: Site:

Report To:

L1293317
12/05/2020
212C-MD-02334 TASK14
Vac Abo 13-3 Release (1RP-1409)
LEA COUNTY, NEW MEXICO
Christian Llull
901 West Wall
Suite 100
Midland, TX 79701

Ср Тс ŚS Cn Sr *Q*c Gl AI Sc

Entire Report Reviewed By:

Chu, toph J m

Chris McCord Project Manager

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

Pace Analytical National

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

Released to Imaging: 3/17/2023 8:22:35 AM ConocoPhillips - Tetra Tech

PROJECT: 212C-MD-02334 TASK14

SDG: L1293317

DATE/TIME: 01/18/21 15:01 PAGE: 1 of 15

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Cn: Case Narrative	4
Sr: Sample Results	5
AH-1 (0'-1') L1293317-01	5
Qc: Quality Control Summary	6
Total Solids by Method 2540 G-2011	6
Wet Chemistry by Method 300.0	7
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Semi-Volatile Organic Compounds (GC) by Method 8015	10
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SDG: L1293317 DATE/TIME: 01/18/21 15:01

of 15

SAMPLE SUMMARY

ONE LAB. NAT Rage 93 of 25

			Collected by	Collected date/time	Received da	te/time
AH-1 (0'-1') L1293317-01 Solid			Joe Tyler	12/02/20 10:00	12/05/20 10:	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1591951	1	12/16/20 04:36	12/16/20 04:46	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1591069	1	12/15/20 13:32	12/16/20 00:35	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1592878	1	12/08/20 13:52	12/16/20 17:16	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1588717	1	12/08/20 13:52	12/09/20 03:54	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1591819	1	12/14/20 23:14	12/15/20 06:23	JN	Mt. Juliet, TN



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PROJECT: 212C-MD-02334 TASK14 SDG: L1293317 DATE/TIME: 01/18/21 15:01

TIME: I 15:01 PAGE: 3 of 15

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

Report Revision History

Level II Report - Version 1: 12/16/20 19:58

SDG: L1293317 DATE/TIME: 01/18/21 15:01

PAGE: 4 of 15

Received by_OGD: 9/2/2021 11:22:10 AM

SAMPLE RESULTS - 01

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Collected date/time: 12/02/20 10:00

TPH (GC/FID) Low Fraction

a,a,a-Trifluorotoluene(FID)

(S)

	by Method 2540 G-	2011						
	Result	Qualifier	Dilution	Analysis		Batch		
Analyte	%			date / time				
Total Solids	98.0		1	12/16/2020 04:46		WG1591951		
Wet Chemistry	ry by Method 300.0	0						
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Chloride	U		9.39	20.4	1	12/16/2020 00:35	WG1591069	
Volatile Organ	nic Compounds (G	C) by Met	nod 8015	D/GRO				
					Dilution	Analysis	Batab	
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Allalysis	Batch	

1

12/16/2020 17:16

12/16/2020 17:16

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

0.0222

U

97.5

-							
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	0.000495	J	0.000486	0.00104	1	12/09/2020 03:54	WG1588717
Toluene	U		0.00135	0.00521	1	12/09/2020 03:54	WG1588717
Ethylbenzene	U		0.000768	0.00260	1	12/09/2020 03:54	WG1588717
Total Xylenes	0.00156	J	0.000917	0.00677	1	12/09/2020 03:54	WG1588717
(S) Toluene-d8	106			75.0-131		12/09/2020 03:54	WG1588717
(S) 4-Bromofluorobenzene	101			67.0-138		12/09/2020 03:54	WG1588717
(S) 1,2-Dichloroethane-d4	114			70.0-130		12/09/2020 03:54	WG1588717

0.102

77.0-120

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	3.35	<u>B J</u>	1.64	4.08	1	12/15/2020 06:23	WG1591819
C28-C40 Oil Range	17.5		0.280	4.08	1	12/15/2020 06:23	WG1591819
(S) o-Terphenyl	66.7			18.0-148		12/15/2020 06:23	WG1591819

SDG: L1293317 DATE/TIME: 01/18/21 15:01

WG1592878

WG1592878

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Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY L1293317-01

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Method Blank (MB)

Method Blank	(MB)				1
(MB) R3604180-1 1	2/16/20 04:46				
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	%		%	%	T
Total Solids	0.00100				
					35
					~

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

L1293317-01 Origin	al Sample (OS) • Dup	licate (E	DUP)		
(OS) L1293317-01 12/16/20	04:46 • (DUP)	R3604180-3	12/16/20 C	4:46		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
alyte	%	%		%		%
otal Solids	98.0	98.1	1	0.139		10

Laboratory Control Sample (LCS)

(LCS) R3604180-2 12/	16/20 04:46				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

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Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY L1293317-01

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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)

L1293317-01 Origin (OS) L1293317-01 12/16/20				· ·		
Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		20

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

L1293361-02 (Priginal Sample	(OS) • Du	plicate	(DUP)		
OS) L1293361-02 1	2/16/20 04:25 • (DUP) R3603970-6	5 12/16/20	04:35		
	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

Laboratory Control Sample (LCS)

(LCS) 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	0 00:06 • (MS) F	R3603970-3 12	2/16/20 00:16	• (MSD) R3603	970-4 12/16/20	0 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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	ConocoPhillips - Tetra Te	ech

PROJECT: 212C-MD-02334 TASK14

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

QUALITY CONTROL SUMMARY L1293317-01

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Method Blank (MB)

)				
(MB) R3604221-3 12/16/2	0 11:38				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
TPH (GC/FID) Low Fraction	U		0.0217	0.100	
(S) a,a,a-Trifluorotoluene(FID)	98.4			77.0-120	

Laboratory Control Sample (LCS)

(LCS) R3604221-2 12/16/	20 10:54				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	4.89	88.9	72.0-127	
(S) a.a.a-Trifluorotoluene(FID)			100	77.0-120	

DATE/TIME	

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SDG: L1293317

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QUALITY CONTROL SUMMARY

ONE LAB. NAT Rage 99 of 125

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Method Blank (MB)

(MB) R3601820-3 12/09/	20 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	20 01:35 • (LCSF)) R3601820-2	2 12/09/20 01:5	5ز							7
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	Í GI
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%	
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	9
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					
(S) 4-Bromofluorobenzene				98.0	103	67.0-138					
(S) 1,2-Dichloroethane-d4				120	118	70.0-130					

SDG: L1293317 DATE/TIME: 01/18/21 15:01 **PAGE**: 9 of 15 Semi-Volatile Organic Compounds (GC) by Method 8015

QUALITY CONTROL SUMMARY

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Method Blank (MB)

Method Blank (M	D)			
(MB) R3603881-1 12/15/	20 04:51			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	1.65	J	1.61	4.00
C28-C40 Oil Range	0.338	J	0.274	4.00
(S) o-Terphenyl	75.2			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3603881-2 12/15	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)

(OS) L1293318-04 12/15/20	0 05:17 • (MS) R	3603881-3 12/	15/20 05:31 • (N	4SD) R360388	81-4 12/15/20 0	5:44						
	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

Abbreviations and	d 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.

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: L1293317

Received by OCD: 9/2/2021 11:22:10 AMCCREDITATIONS & LOCATIONS

Page 102 of 125 ONE LAB. NATIONWIDE.

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

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky 16	KY90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ¹⁴	2006
Louisiana ¹	LA180010	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA

Third Party Federal Accreditations

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

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

Our Locations

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



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Matt Shacklock

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Pace Analytical® National Center for Testing & Innovation

Login #: L1293317 Client: COPTETRA Date: 12/05/20 Evaluated by:

Non-Conformance (check applicable items)

Sample Integrity	Chain of Custody Clarification	
Parameter(s) past holding time	Login Clarification Needed	If Broken Container:
Temperature not in range	Chain of custody is incomplete	Insufficient packing material around container
Improper container type	Please specify Metals requested.	Insufficient packing material inside cooler
pH not in range.	Please specify TCLP requested.	Improper handling by carrier (FedEx / UPS / Couri
Insufficient sample volume.	Received additional samples not listed on coc.	Sample was frozen
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Vials received with headspace.	Trip Blank not received.	If no Chain of Custody:
Broken container	Client did not "X" analysis.	Received by:
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		Carrier:
		Tracking#

Login Comments:

Client labeled containers as "HA-1 (PB-6)" while the COC has "AH-1 (BH-6)". Logged per COC.

Client informed by:	Call	Email	Voice Mail	Date: 12/7/20	Time: 13:26	S. M. OPPI
TSR Initials: CM	Client Conta	act:				

Login Instructions:

Keep as logged per COC.

Chris McCord

From:	Abbott, Sam <u><sam.abbott@tetratech.com></sam.abbott@tetratech.com></u>
Sent:	Monday, January 18, 2021 2:00 PM
То:	Chris McCord
Subject:	FW: Pace Analytical National Level II Report for 212C-MD-02334 TASK14 Vac Abo 13-3
	Release (1RP-1409) L1293317
Attachments:	L1293317.pdf

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe. Hi Chris,

As with my last email, could this report be revised to remove (BH-6) from the sample ID?

Thank you, Sam

From: Llull, Christian <u><Christian.Llull@tetratech.com></u> Sent: Wednesday, December 16, 2020 8:43 PM To: Abbott, Sam <u><Sam.Abbott@tetratech.com></u> Subject: Fwd: Pace Analytical National Level II Report for 212C-MD-02334 TASK14 Vac Abo 13-3 Release (1RP-1409) L1293317

Christian

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From: <u>chris.mccord@pacelabs.com</u> <<u>chris.mccord@pacelabs.com</u>> Sent: Wednesday, December 16, 2020 7:58:06 PM To: Llull, Christian <<u>Christian.Llull@tetratech.com</u>> Subject: Pace Analytical National Level II Report for 212C-MD-02334 TASK14 Vac Abo 13-3 Release (1RP-1409) L1293317

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Thank you for choosing Pace National!

Please find enclosed PDF report containing your laboratory analysis and chain of custody.

Happy Holidays from Pace National.

Pace Analytical National Center for Testing & Innovation will be closed for the Holidays per the below (all times CST): Thursday November 26th Thursday December 24th at Noon -> Friday December 25th Thursday December 31st at Noon -> Friday January 1st

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APPENDIX E NMSLO Seed Mixture Details



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-1409



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 class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

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Custom Soil Resource Report

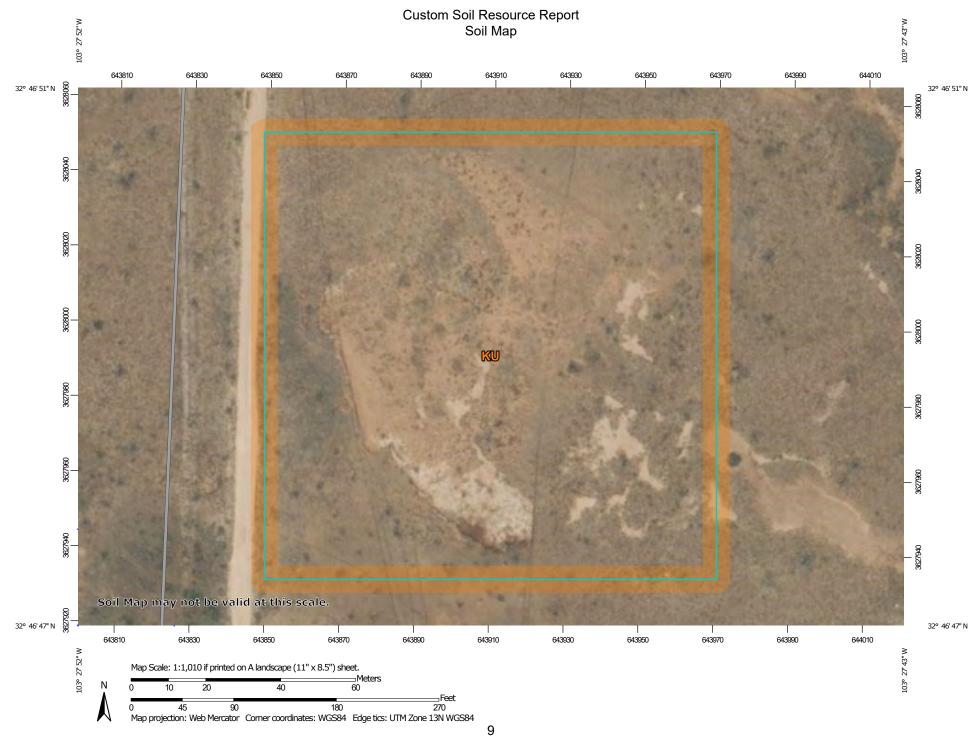
identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.







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Custom Soil Resource Report

MAP L	EGEND	MAP INFORMATION
Area of Interest (AOI) Area of Interest (AOI) Soils O Soils O Soil Map Unit Polygons O Soil Map Unit Polygons O Soil Map Unit Points O Soil Map Unit Po	Image: Spoil Area Image: Spoil Area <	 The soil surveys that comprise your AOI were mapped at 1:20,000. Warning: Soil Map may not be valid at this scale. Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale. Please rely on the bar scale on each map sheet for map measurements. Source of Map: Natural Resources Conservation Service Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857) Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more
Mine or Quarry Miscellaneous Water	Aerial Photography	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 ar of the version date(s) listed below.
 Perennial Water Rock Outcrop Saline Spot Sandy Spot Severely Eroded Spot 		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.
 Sinkhole Slide or Slip Sodic Spot 		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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	3.6	100.0%
Totals for Area of Interest		3.6	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

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

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Custom Soil Resource Report

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
<u>Forbs:</u> Firewheel (<i>Gaillardia</i>)	VNS, Southern	1.0	Ð
<u>Shrubs:</u> Fourwing saltbush Common winterfat	Marana, Santa Rita VNS, Southern	1.0 0.5	D F
8 8	Total PLS/acr	e 18.0	S B

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

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



District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:		OGRID:	
CONOCC	COPHILLIPS COMPANY	217817	
600 W. III	Illinois Avenue	Action Number:	
Midland,	l, TX 79701	46093	
		Action Type:	
		[C-141] Release Corrective Action (C-141)	

CONDITIONS

CONDITIONO		
Created By	Condition	Condition Date
amaxwell	Work plan approved with conditions. Sampling variance denied. Approved to sample every 500 square feet on sidewalls and base.	3/17/2023
amaxwell	Submit a report via the OCD permitting portal by 6/23/2023.	3/17/2023