

February 7, 2022

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

Re: Release Characterization and Remediation Work Plan ConocoPhillips SEMU Strawn Battery Header Release Unit Letter F, Section 25, Township 20 South, Range 37 East Lea County, New Mexico Incident ID# nRM2007037866

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to assess a release that occurred at the Southeast Monument Unit (SEMU) Strawn Battery Header Release area (Site). The Site is located in Public Land Survey System (PLSS) Unit Letter F, Section 25, Township 20 South, and Range 37 East, Lea County, New Mexico. The coordinates of the release point are approximately 32.545414°, -103.205854°, located across a lease road approximately 120 feet southwest of the SEMU Strawn Battery, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico Oil Conservation District (NMOCD) C-141 Initial Report, the release was discovered on February 27, 2020 when a crew was in the process of uncovering flanges from the header to replace a flowline. The date of the release is unknown. Approximately 17.3 barrels (bbls) of produced water were reported released, and no free liquids were recovered during initial response actions. The SEMU Strawn Battery Header Release extent is shown in Figure 3. The (NMOCD) received the initial C-141 on March 10, 2020 and subsequently assigned the release the Incident ID nRM2007037866. The initial C-141 form is included as Appendix A.

SITE CHARACTERIZATION

A site characterization was performed and no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.09 New Mexico Administrative Code (NMAC). The Site is in an area of low karst potential.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within 800 meters (approximately ½ mile) of the Site. Based on data from three (3) water wells located within 3,800 meters (approximately 2.4 miles) of the Site, the average depth to groundwater is 72 feet below ground surface (bgs). The site characterization data is included in Appendix B.

REGULATORY FRAMEWORK

Based upon the release footprint location 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

Release Characterization and Remediation Work Plan February 7, 2022

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

As described later in the report, in lieu of drilling a boring for groundwater depth verification, COP has elected to remediate to the most stringent RRALs. However, based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the remediation RRALs for the Site are as follows:

Constituent	Remediation RRAL
Chloride	10,000 mg/kg
TPH (GRO+DRO+ORO)	2,500 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

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

Constituent	Reclamation Requirements
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg

INITIAL RESPONSE ACTIVITIES

During the initial response activities, the approximately 12-foot by 12-foot release area was excavated to approximately 4 feet bgs and fenced shortly following the release date. No soil samples were collected immediately following excavation activities. Tetra Tech conducted a visual Site inspection on behalf of ConocoPhillips on May 19, 2021 to assess current Site conditions and take photographs of the open excavation and surrounding area. Stressed vegetation was observed in the pasture area surrounding the header in an area larger than the reported release extent. Tetra Tech also observed an additional impacted area approximately 130 feet southeast of the SEMU Strawn Battery Header. Photographic documentation of the Site visit is included in Appendix C.

Review of historical aerial imagery revealed that the area surrounding the header has been largely lacking sufficient vegetation since March 2012, and the vegetation may have been deliberately cleared with the installation of the header. However, vegetative cover surrounding the header has diminished over time, and may be due to historical impacts in the area. The additional impacted area southeast of the header is visible in historical imagery from as far back as 1997. Due to the age of this release and distance from the header, the additional impacted area is likely unrelated to the SEMU Strawn Battery Header release, however, will be addressed accordingly in this work plan.

Tetra Tech returned to the Site on July 14, 2021 to collect confirmation floor and sidewall samples from the release excavation to gauge the effectiveness of the initial response activities. One (1) floor sample and four (4) sidewall samples were collected and submitted to Pace Analytical in Mount Juliet, Tennessee to be analyzed for TPH (DRO and ORO) by EPA Method 8015, TPH Low Fraction (GRO) by EPA Method 8015D, BTEX by EPA Method 8260B, and chlorides by EPA Method 300.0. A copy of the laboratory analytical report and chain-of-custody documentation is included in Appendix D. Sample locations, along with the release extent and excavated area, are shown in Figure 4.

SITE ASSESSMENT ACTIVITIES

On August 9, 2021, Tetra Tech personnel returned to the Site to conduct additional soil sampling to assess the observed area of historical impact to the southeast of the SEMU Strawn Battery Header, as well as the area surrounding the header with stressed vegetation. A total of ten (10) hand auger borings were advanced to depths of 3 feet bgs. Five (5) borings (AH-1 through AH-5) were installed within and around the area of stressed vegetation surrounding the SEMU Strawn Battery Header. The remaining five (5) borings (AH-6 Release Characterization and Remediation Work Plan February 7, 2022

through AH-10) were installed within and around the observed area of observed historical impact to the southeast of the release Site, each to a total depth of 3 feet bgs. Soils at the Site consist of brown loose sands.

Tetra Tech again returned to the Site on October 7, 2021 to complete delineation of the historical release area. One hand auger boring (AH-11) was installed within the release extent to a depth of 8 feet bgs to vertically delineate the depth of impact. Three hand auger borings (AH-12 through AH-14) were installed to a depth of 3 feet bgs along the perimeter of the historical release extent to complete horizontal delineation. Assessment sampling locations are shown in Figure 5.

A total of thirty-one (31) samples were collected from the fourteen (14) borings and submitted to Pace Analytical (Pace) to be analyzed for TPH (DRO and ORO) by EPA Method 8015, TPH Low Fraction (GRO) by EPA Method 8015D, BTEX by EPA Method 8260B, and chlorides by EPA Method 300.0. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix D.

SUMMARY OF SAMPLING RESULTS

Results from the July 2021 confirmation sampling event are summarized in Table 1. Analytical results associated with the collected samples were below the Site reclamation requirements for chlorides, TPH, and BTEX. The data indicate that the initial response excavation activities were successful in remediating the reported SEMU Strawn Battery Header Release.

Results from the August and October 2021 soil sampling event are summarized in Table 2. The analytical results associated with the sample locations in and around the area of stressed vegetation surrounding the SEMU Strawn Battery Header release (AH-1 through AH-5) were below the Site reclamation requirements for all constituents.

Analytical results associated with the August 2021 sample locations in and around the area of observed historical contamination (AH-6 through AH-10) were below detection limits for chloride and BTEX but were above the Site reclamation requirements for TPH. Horizontal and vertical delineation of the historical release area was achieved with the October 2021 sampling results. The analytical results associated with sample location AH-11 were above the Site RRALs down to 5 feet bgs. The analytical results associated with horizontal delineation locations AH-12 through AH-14 were below Site reclamation requirements in all samples. Based on the results of the assessment work, the historical release area is horizontally and vertically delineated.

REMEDIATION WORK PLAN

Based on the analytical results from the additional assessment, ConocoPhillips proposes to remove the impacted material within the historical release extent as shown in Figure 6. In lieu of drilling a boring for groundwater depth verification, COP elects to remediate to the most stringent RRALs. Thus. impacted soils will be excavated using heavy equipment (backhoes, hoe rams, and track hoes) to a maximum depth of 6 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation is below the Site RRALs. Heavy equipment will come no more than 4 feet from any pressurized lines.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation bottom and sidewall samples will be collected for verification of remedial activities, and analyzed for TPH, BTEX, and chlorides. Once analytical 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 550 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 7. Nine (9) confirmation floor samples and thirteen (13) confirmation

Release Characterization and Remediation Work Plan February 7, 2022

sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 3,900 square feet.

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

SITE RECLAMATION AND RESTORATION PLAN

Post-remediation, the backfilled areas will be seeded (in the next first favorable growing season) to aid in revegetation. Additionally, the area of stressed vegetation near the header will be seeded and back dragged. Based on the soils at the site, the New Mexico State Land Office (NMSLO) Sandy (S) Sites Seed Mixture will be used for seeding and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. The NMSLO seed mixture details and corresponding pounds pure live seed per acre are included in Appendix E. Final reclamation will create a landform that approximates and blends in with the surrounding landform, while controlling erosion.

CONCLUSION

ConocoPhillips proposes to begin remediation activities at the Site within 90 days of NMOCD plan approval. Upon completion of the proposed work, a final closure report detailing the remediation activities and the results of the confirmation sampling will be submitted to NMOCD. If you have any questions concerning the soil assessment or the proposed remediation activities for the Site, please call me at (512) 338-2861.

Sincerely, Tetra Tech, Inc.

Christian M. Llull, P.G. Program Manager

cc: Ms. Jenni Fortunato, RMR - ConocoPhillips

Release Characterization and Remediation Work Plan February 7, 2022

ConocoPhillips

LIST OF ATTACHMENTS

Figures:

- Figure 1 Site Location Map
- Figure 2 Topographic Map
- Figure 3 Approximate Release Extent
- Figure 4 Initial Excavation and Confirmation Sampling
- Figure 5 Site Assessment Map
- Figure 6 Proposed Remediation Extent
- Figure 7 Alternative Confirmation Sampling Plan

Tables:

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

Appendices:

Appendix A – C-141 Forms

Appendix B – Site Characterization Data

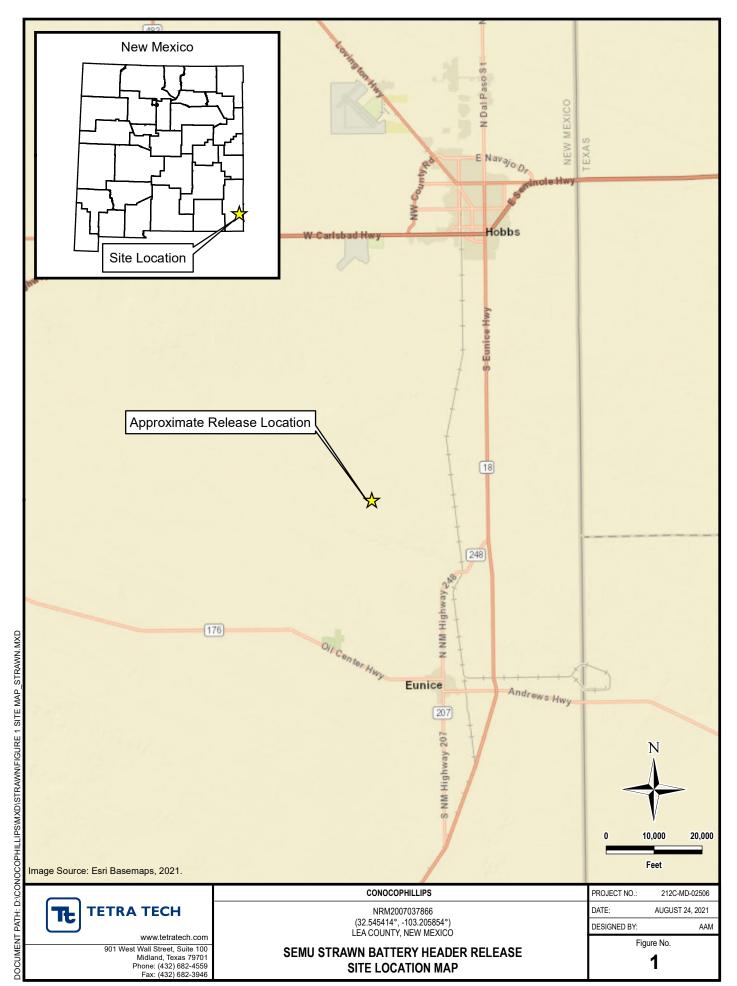
Appendix C – Photographic Documentation

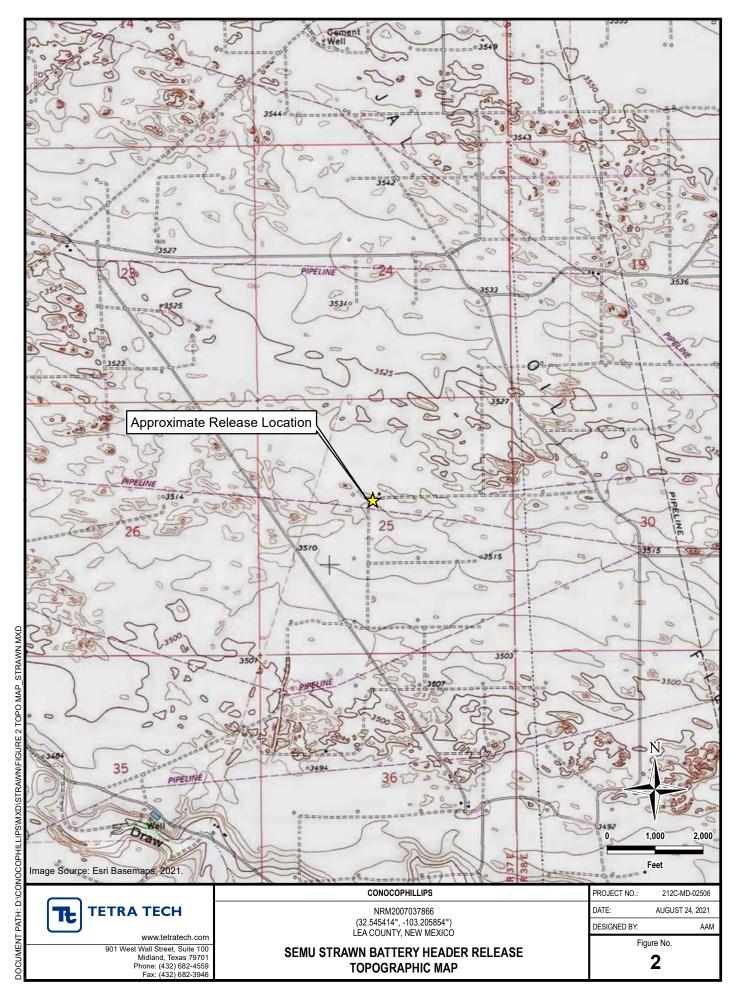
Appendix D – Laboratory Analytical Data

Appendix E – NMSLO Seed Mixture Details

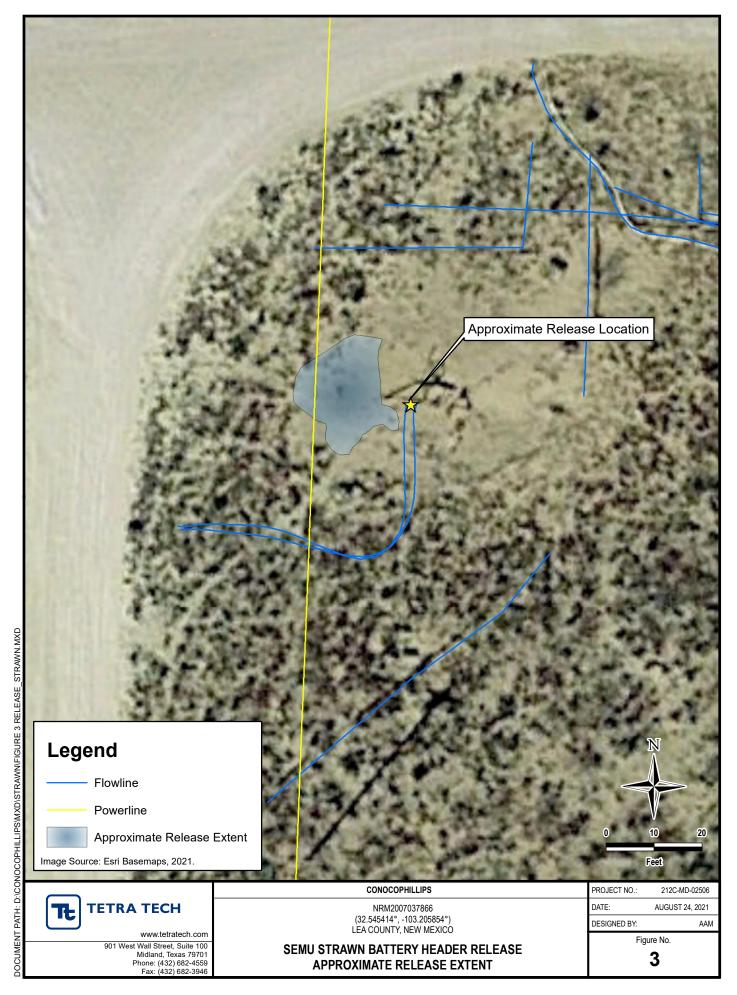
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FIGURES

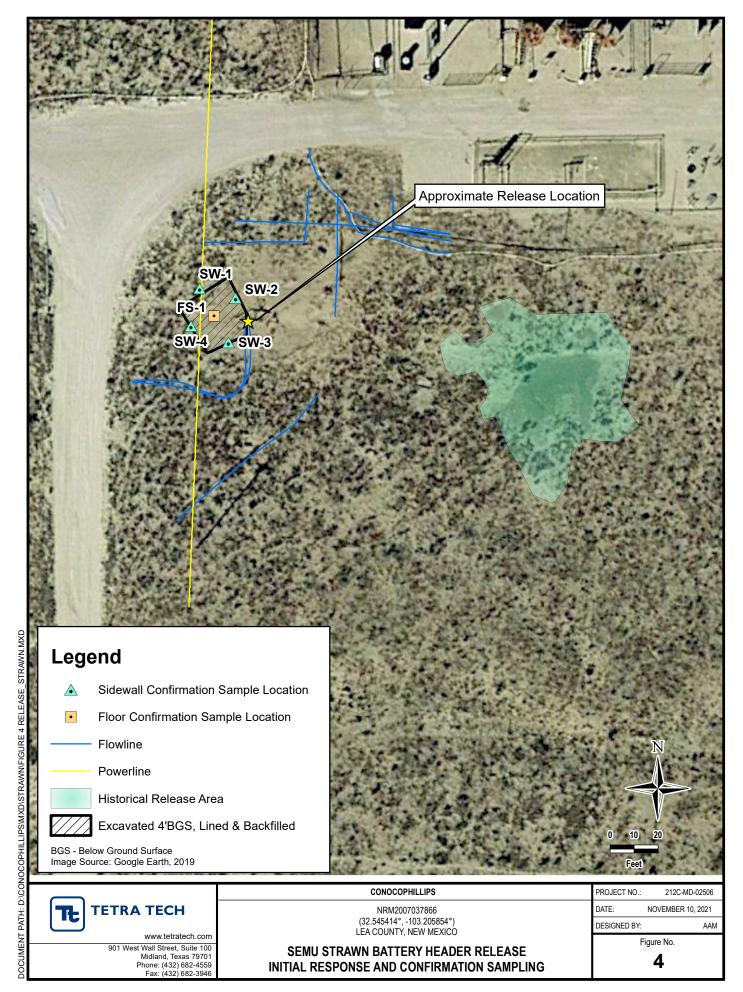


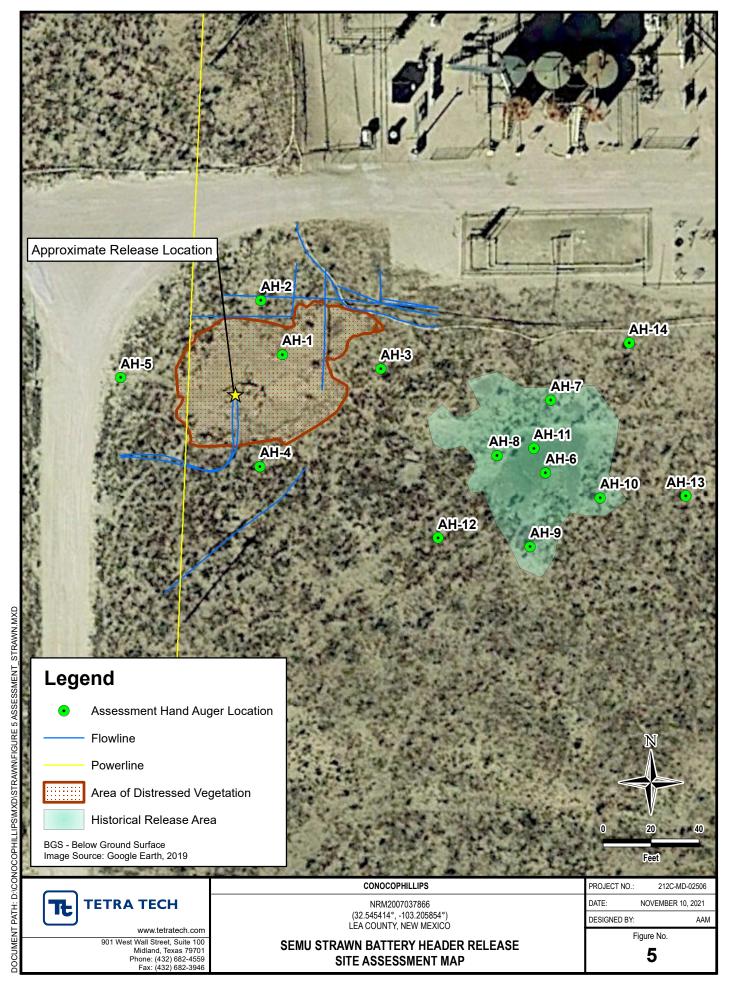


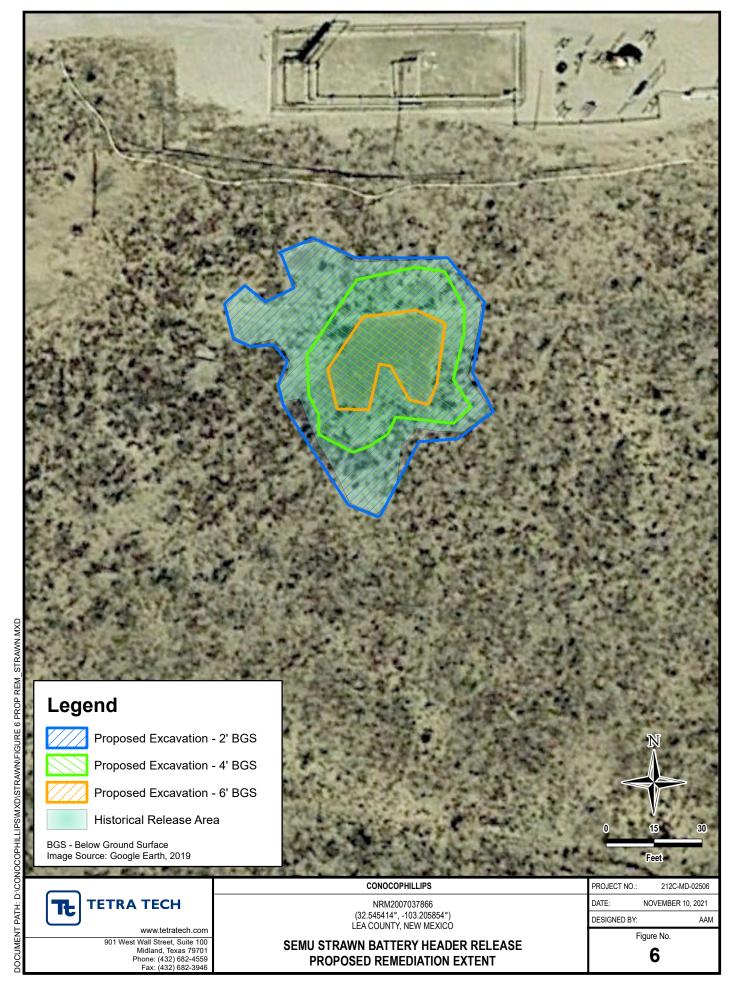
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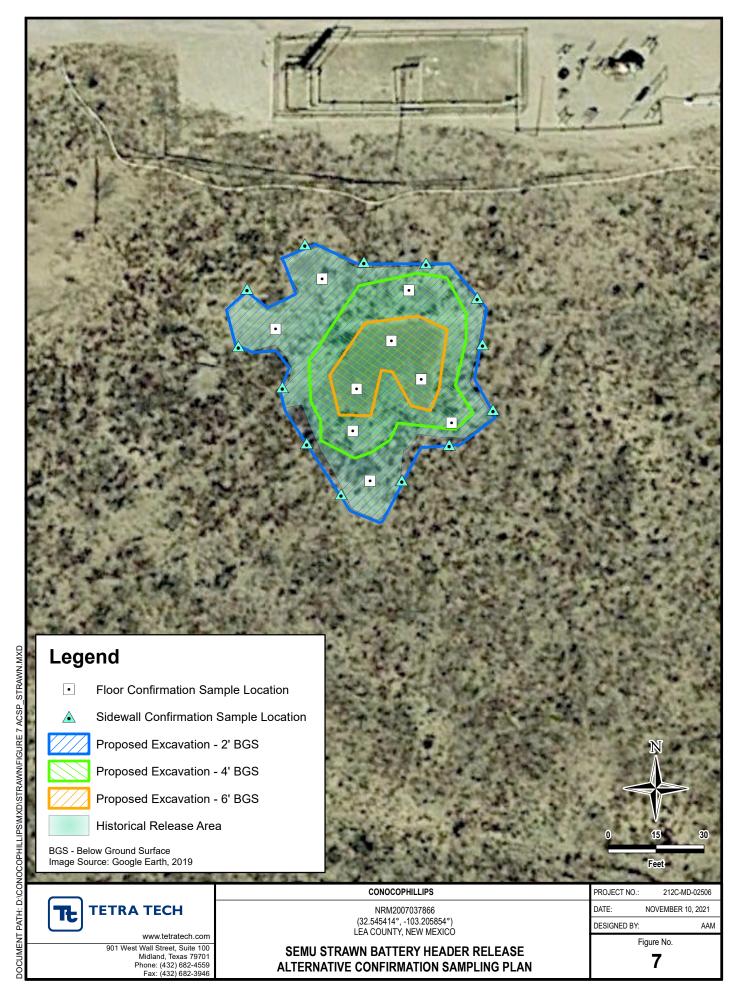


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TABLES

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TABLE 1 SUMMARY OF ANALYTICAL RESULTS NRM2007037866 CONFIRMATION SAMPLING CONOCOPHILLIPS SEMU STRAWN BATTERY RELEASE LEA COUNTY, NM

			Field Screen	ning Results							BTEX ²								TPH	l ³		
Sample ID	Sample Date	Sample Depth Interval	Field Scieel	ing Results	Chloride1	Chloride1		Benzene		Benzene Toluene		Ethylbenzene Total Xylenes			Total BTEX	GRO ⁴		DRO		ORO		Total TPH
Sample ID	Sample Date		Chloride	PID			benzene		Toldene		TOTAL DIEX			C ₃ - C ₁₀		C ₁₀ - C ₂₈		C ₂₈ - C ₄₀		(GRO+DRO+ORO)		
		ft. bgs	pp	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
FS-1 (4')	7/14/2021	4	-	-	< 23.5		< 0.00135		< 0.00675		< 0.00337		< 0.00877		-	0.0404	ΒJ	4.97		5.15		10.2
SW-1	7/14/2021	-	-	-	< 20.8		< 0.00108		< 0.00542		< 0.00271	1	< 0.00704		-	0.0396	ВJ	< 4.17		< 4.17		0.0396
SW-2	7/14/2021	-	-	-	< 20.9		< 0.00109		< 0.00547		< 0.00273		< 0.00711		-	0.0389	ΒJ	< 4.19		1.11	J	1.15
SW-3	7/14/2021	-	-	-	< 21.0		< 0.00110		< 0.00548		< 0.00274		< 0.00713		-	0.0484	ВJ	2.18	J	2.87	J	5.10
SW-4	7/14/2021	-	-	-	< 20.8		< 0.00108		< 0.00541		< 0.00270		< 0.00703		-	0.0385	ВJ	< 4.16		< 4.16		0.0385

NOTES: ft.

Feet Below ground surface bgs

ppm Parts per million

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics DRO

- Diesel range organics
- Oil range organics ORO 1 EPA Method 300.0

EPA Method 8260B 2

3 EPA Method 8015

EPA Method 8015D/GRO 4

Bold and italicized values indicate exceedance of proposed Remediation RRALs and Reclamation Requirements.

Shaded rows indicate intervals proposed for excavation.

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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TABLE 2 SUMMARY OF ANALYTICAL RESULTS SOIL ASSESSMENT - NRM2007037866 CONOCOPHILLIPS SEMU STRAWN BATTERY HEADER RELEASE LEA COUNTY, NM

Sample problem Sample problem Interval problem Choird problem Percent problem Total Problem Total Problem Galo Problem <												BTEX ²								TPH	3		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Councilo 10	formula Data	Sample Depth	Field Screening Results Chloride ¹		Pontono		Toluono		Ethydhonzon		Total Vulance		Total PTEV	GRO ⁴ DRO			ORO		Total TPH			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Sample ID Sample Date		interval	Chloride	PID			benzene		Toluene		Ethylpenzen	2	Total Aylenes		TOTALBLEX	C3 - C10		C ₁₀ - C ₂₈		C ₂₈ - C ₄₀		(GRO+DRO+ORO)
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			ft. bgs	pp	m	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg C	2	mg/kg	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	AH-1	8/9/2021	0-1	20.8	-	< 24.0		< 0.00140		< 0.00702		< 0.00351		< 0.00913		-	0.0621	ВJ	4.35	J	5.70		10.1
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			2-3	26.7	-	14.7	J	< 0.00139		< 0.00693		< 0.00347		< 0.00901		-	0.0434	ВJ	< 4.77		< 4.77		0.0434
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	AH-2	8/9/2021	0-1	25.1	-	< 20.6		< 0.00106		< 0.00532		< 0.00266		< 0.00691		-	0.0804	ΒJ	< 4.13		1.37	J	1.45
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	511-2	0/3/2021	2-3	12.8	-	< 24.5		< 0.00145		< 0.00725		< 0.00363		< 0.00943		-	0.0536	ΒJ	< 4.90		0.717	J	0.771
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	411.2	8/0/2021	0-1	11.8	-	< 24.7		< 0.00147		< 0.00734		< 0.00367		< 0.00954			0.0645	ΒJ	< 4.93		3.71	J	3.77
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	AH-3	8/9/2021	2-3	10.2	-	< 24.7		< 0.00147		< 0.00733		< 0.00367		< 0.00953		-	0.0555	ΒJ	2.34	J	3.81	J	6.21
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	411.4	8/0/2021	0-1	10.9	-	< 24.5	1	< 0.00145		< 0.00724		< 0.00362		< 0.00941	Т	-	0.0850	ВJ	< 4.89		3.74	J	3.83
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	AH-4	8/9/2021	2-3	10.6	-	< 21.4		< 0.00114		< 0.00571		< 0.00285		< 0.00742		-	0.0547	ВJ	2.77	J	5.04		7.86
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		0/0/2021	0-1	17.2	-	< 24.2		< 0.00142		< 0.00711		< 0.00355		< 0.00924	T	-	0.0600	ВJ	5.03		7.20		12.3
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	AH-5	8/9/2021	2-3	56.6	-	< 21.4		< 0.00114		< 0.00572		< 0.00286		< 0.00744		-	0.0587	ВJ	31.8		39.1		71.0
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		- 1- 1	0-1	5.3	-	25.4		< 0.00109		< 0.00544		< 0.00272		< 0.00708	Т	-	0.0561	ВJ	96.4		219		315
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	AH-6	8/9/2021	2-3	17.6	-	< 22.0		< 0.00120		< 0.00600		< 0.00300		< 0.00781			0.0522	ВJ	645		1,110		1,755
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			0-1	22.1		< 24.7		< 0.00147		< 0.00735		< 0.00367		< 0.00955	Т		0.0687	ВJ	5.83		20.2		26.1
AH-8 8/9/2021 2-3 952 - < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < << < < < << << << << << <<<< <<<< <<<<<<<<<<<<<<<<<<<<<<<<<<<<	AH-7	8/9/2021	2-3	32.6		< 20.3		< 0.00103		< 0.00517		< 0.00259		< 0.00672		-	0.0502	ВJ	265		511		776
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		0/0/2021	0-1	28.1	-	< 24.4		< 0.00144		< 0.00721		< 0.00360		< 0.00937	Т		0.0626	ВJ	< 4.88		3.66	J	3.72
AH-9 8/9/2021 2-3 9.4 -	AH-8	8/9/2021	2-3	95.2	-	< 24.7		< 0.00147		< 0.00733		< 0.00367		< 0.00953			0.0584	ВJ	56.5		127		184
AH-10 2.3 9.4 - <24.0 <0.0010 <0.00590 <0.00394 <0.00908 <0.00908 <0.00908 <0.00908 <0.00908 <0.00908 <0.00908 <0.00908 <0.00908 <0.00908 <0.00908 <0.00908 <0.00908 <0.00908 <0.00907 <0.00100 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <t< td=""><td></td><td></td><td>0-1</td><td>15.8</td><td>-</td><td>< 20.6</td><td></td><td>< 0.00106</td><td></td><td>< 0.00530</td><td></td><td>< 0.00265</td><td></td><td>< 0.00689</td><td>Т</td><td></td><td>< 0.103</td><td></td><td>309</td><td></td><td>832</td><td></td><td>1,141</td></t<>			0-1	15.8	-	< 20.6		< 0.00106		< 0.00530		< 0.00265		< 0.00689	Т		< 0.103		309		832		1,141
AH-10 8/9/2021 2.3 21.1 . <20.2 <0.00102 <0.00254 <0.00264 <0.00660 . <0.0101 146 362 0-1 14.4 . <20.1	AH-9	8/9/2021	2-3	9.4		< 24.0		< 0.00140		< 0.00698		< 0.00349		< 0.00908		-	< 0.120		8.32		24.1		32.4
2.3 21.1 - <20.2 <0.00102 <0.00508 <0.00254 <0.00600 - <0.010 146 362 0-1 14.4 - <20.1			0-1	9.8		< 23.9		< 0.00140		< 0.00698		< 0.00349		< 0.00907	Т		< 0.120		5.86		12.6		18.5
	AH-10	8/9/2021	2-3	21.1	-	< 20.2		< 0.00102		< 0.00508		< 0.00254		< 0.00660		-	< 0.101		146		362		508
		Ī	0-1	14.4	-	< 20.1		0.000673	J	0.0222		< 0.00252		0.0136	T	0.0365	0.451		2,400		4,410		6,810
2.5			2-3	248	-	< 22.1		< 0.00121		0.00338	J	< 0.00301		< 0.00784		0.00338	0.0333	J	4,610		9,110		13,720
AH-11 10/7/2021 4-5 79.1 - <20.3 <0.00103 0.00501 J <0.00558 0.00452 J 0.00953 0.0404 J 2.610 4.420 <	AH-11	10/7/2021	4-5	79.1	-	< 20.3		< 0.00103		0.00501	J	< 0.00258		0.00452 J	J	0.00953	0.0404	J	2,610		4,420		7,030
6-7 76.3 . <21.3 16 <0.0013 <0.00564 <0.00282 <0.00733 . 0.0361 J 5.77 8.00			6-7	76.3	-	< 21.3	J6	< 0.00113		< 0.00564		< 0.00282		< 0.00733		-	0.0361	J	5.77		8.00		13.8
7-8 132 - <21.7 <0.00117 <0.00587 <0.00293 <0.00763 - 0.0577 J 20.1 37.8			7-8	132	-	< 21.7		< 0.00117		< 0.00587		< 0.00293		< 0.00763		-	0.0577	J	20.1		37.8		58.0
0.7 (201) 0-1 5.6 · <20.4 <0.00104 <0.00522 <0.00261 <0.00679 · 0.0407 J 3.52 J 13.0	411.42	10/7/2021	0-1	5.6	-	< 20.4	1	< 0.00104		< 0.00522		< 0.00261		< 0.00679	Т	-	0.0407	1	3.52	1	13.0		16.6
AH-12 10/7/2021 2-3 11.9 - <20.2 <0.00102 <0.00508 <0.00254 <0.00660 - <0.101 1.65 J 1.98 BJ	AH-12	10/7/2021	2-3	11.9	-	< 20.2		< 0.00102		< 0.00508		< 0.00254		< 0.00660		-	< 0.101		1.65	J	1.98	ΒJ	3.63
0-1 7.5 - <20.2 <0.0012 <0.00512 <0.00256 <0.00666 - <0.101 2.09 J 14.7		10/7/0001	0-1	7.5	-	< 20.2	1	< 0.00102		< 0.00512		< 0.00256		< 0.00666	T	-	< 0.101		2.09	1	14.7		16.8
AH-13 10/7/2021 2-3 51.4 - <21.5 <0.0015 <0.00577 <0.00288 <0.00750 - <0.108 3.11 J 5.04	AH-13	10/7/2021	2-3	51.4	-	< 21.5		< 0.00115		< 0.00577		< 0.00288		< 0.00750		-	< 0.108		3.11	1	5.04		8.15
0-1 14.3 - <20.4 <0.00104 0.00362 J <0.00259 0.0104 0.0140 <0.102 4.03 J 15.7			0-1	14.3	-	< 20.4		< 0.00104		0.00362	1	< 0.00259		0.0104	T	0.0140	< 0.102		4.03	1	15.7		19.7
AH-14 10/7/2021 2-3 21.2 - <20.3 <0.0013 0.00378 J <0.00258 0.00883 0.0126 <0.102 2.61 J 4.17	AH-14	10/7/2021	2-3	21.2	-	< 20.3		< 0.00103		0.00378	1	< 0.00258		0.00883	T	0.0126	< 0.102		2.61	1	4.17		6.78

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

Bold and italicized values indicate exceedance of proposed Remediation RRALs and/or Reclamation Requirements.

Shaded rows indicate intervals proposed for excavation.

- 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.

J6 The sample matrix interfered with the ability to make any accurate determination; spike value is low.

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APPENDIX A C-141 Forms

District 1 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IY 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NRM2007037866
District RP	
 Facility ID	
 Application ID	

Volume/Weight Recovered (provide units)

Release Notification

Responsible Party

Responsible Party ConocoPhillips	OGRID 217817
Contact Name Charles Beauvais	Contact Telephone + 575-988-2043
Contact email – charles.r.beauvais@conocophillips.com	Incident # (assigned by OCD)
Contact mailing address - 15 W London Rd, Loving, NM 8825	56

Location of Release Source

Latitude	32.545414
----------	-----------

-103.205854 Longitude

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Header South of Strawn Battery – SEMU 146	Site Type: Header/Flowline
Date Release Discovered: 02/27/2020	AP1# (if applicable) 30-025-34977

	Unit Letter	Section	Township	Range	County
ĺ	F	25	205	37E	LEA

Volume/Weight Released (provide units)

Surface Owner: State Federal Tribal Private (Name: Deck Millard Est#4193, Terry Richey)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Crude Oil Volume Released (bbls) Volume Recovered (bbls) Produced Water Volume Released (bbls) 17.3 Volume Recovered (bbls) Is the concentration of dissolved chloride in the Yes 🗌 No produced water >10,000 mg/l? Condensate Volume Released (bbls) Volume Recovered (bbls) Natural Gas Volume Released (Mcf) Volume Recovered (Mcf)

Cause of Release

Other (describe)

Line was isolated for replacement. While crew was in the process of uncovering flanges from header, a past leak was discovered. Actual release date is unknown; however, the spill area was estimated at 17.3 bbls according to spill calculator.

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Page 2

Page 1	9 of	d/	12
7027066	1	1	

Incident ID	NRM2007037866
District RP	
Facility ID	
Application ID	

	Appreation iD						
Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?						
release as defined by							
19.15.29.7(A) NMAC?	An authorized release of a volume, excluding gas, in excess of 25 bbls.						
Yes 🛛 No							
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?							
Notification was made on 3/3/2020 to Mr. Billings, Mr. Griswold, and NMOCD general email. Notification was made by self, Charles							
Beauvais. To determine the volume we had to wait for one call and weather to clear. We have since excavated out the material to							
	determine what the volume was.						
	Initial Response						
The new milde	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury						
The Tespoistore	The responsible party must indertake the Johowing actions immediately timess they could create a supery mean a data result in highly						
The source of the rele	case has been stopped.						
🛛 The impacted area ha	Ithe impacted area has been secured to protect human health and the environment.						
🛛 🛛 Released materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.						
All free liquids and recoverable materials have been removed and managed appropriately.							

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

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

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

Printed Name: Chaptes Beauvais	Title:Environmental Coordinator
Signature: Celles R. Hannell	Date:3/9/2020
email:charles.r.beauvais@conocophillips.com	Telephone: 575-988-2043
OCD Only	
Received by: <u>Ramona Marcus</u>	Date: <u>3/10/2020</u>

				L48 Spill Volume	Estimate Form				
		Facility Name & Number	Header south of Stra	awn Battery					
		Asset Area:	lobbs						
	F	Release Discovery Date & Time:	2/27/2020				ander versichten der versichten der		
		Release Type:	Produced Water						
	Provide any	y known details about the event:	While preparing hea	der for decomissioning, group found spil	area. One call and weather delay held estir	mation up.			seine suo essi de disc
				Spill Calculation - Subsu	rface Spill - Rectangle				
	Was	s the release on pad or off-pad?			See reference table	e below			
	Has it rained at least	a half inch in the last 24 hours?			See reference table	e below			
Convert irregular shape to a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spille Liquid other than (bbl.)
Rectangle A	12.0	12.0	70.00	11.55%	149.520	17.270			
Rectangle B					0.000	0.000		A CONTRACTOR	
Rectangle C					0.000	0.000			
Rectangle D					0.000	0.000			
Rectangle E					0.000	0.000			
Rectangle F					0.000	0.000			ing and the second second
Rectangle G					0,000	0.000			
Rectangle H					0.000	0,000			
Rectangle I					0.000	0.000			
Rectangle J					0.000	0,000			
					Total Volume Release:	17.270			

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Page 20 of 142

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Received by OCD: 2/7/2022 10:46:30 PM Form C-141 State of New Mexico

Oil Conservation Division

	Page 21 of 142
Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)						
Did this release impact groundwater or surface water?							
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: 2/7/20 Form C-141	22 10:46:30 PM State of New Mexico	Page 22 of 142
Page 4	Oil Conservation Division	Incident ID
l age 4	On Conservation Division	District RP
		Facility ID
		Application ID
regulations all operators ar public health or the environ failed to adequately investi addition, OCD acceptance and/or regulations. Printed Name: Signature: email:	re required to report and/or file certain release notification nment. The acceptance of a C-141 report by the OCD do igate and remediate contamination that pose a threat to g of a C-141 report does not relieve the operator of respon Title Date	f my knowledge and understand that pursuant to OCD rules and ns and perform corrective actions for releases which may endanger oes not relieve the operator of liability should their operations have roundwater, surface water, human health or the environment. In nsibility for compliance with any other federal, state, or local laws
OCD Only		
Received by:		Date:

Received by OCD: 2/7/2022 10:46:30 PM 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.

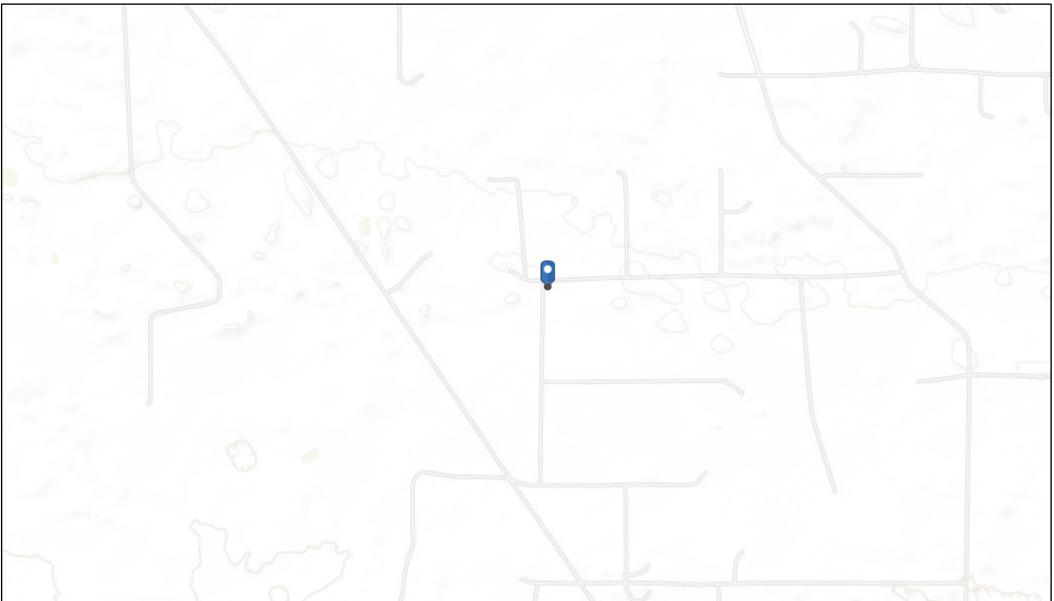
Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation point Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.1 Proposed schedule for remediation (note if remediation plan time) 	2(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation
	oduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of aws and/or regulations.
OCD Only	
Received by:	Date:
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved
Signature:	Date:

APPENDIX B Site Characterization Data

NMOCD Waterbodies



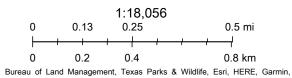
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OSE Water-bodies

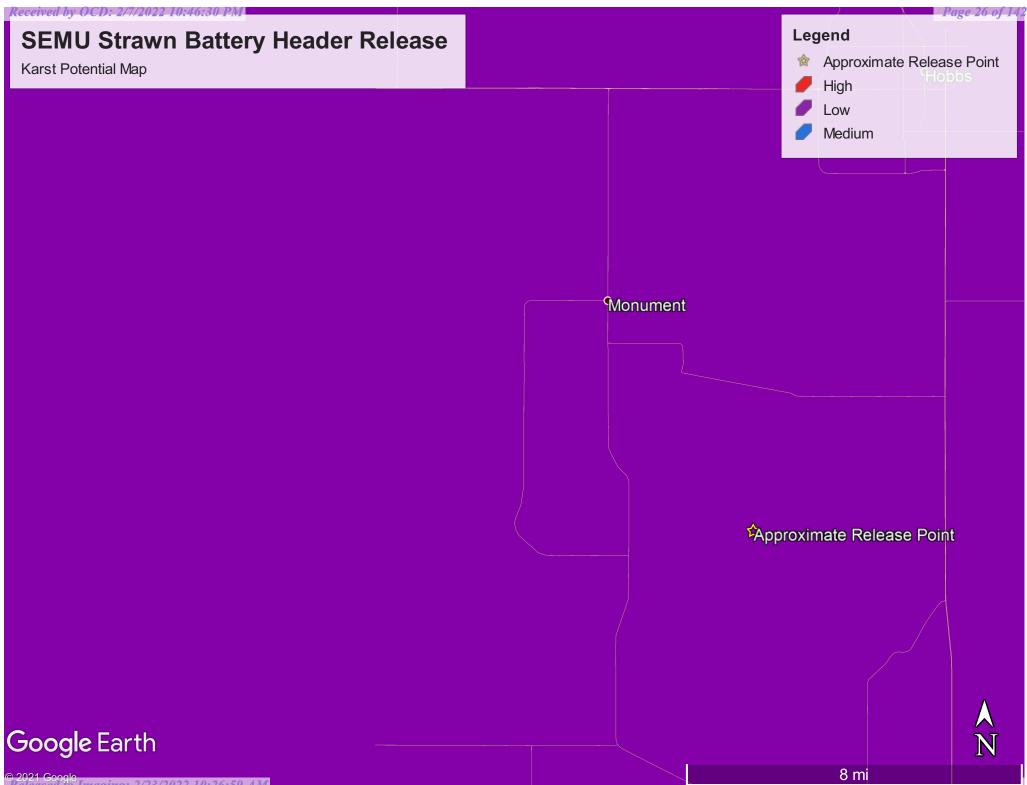






Bureau of Land Management, Lexas Parks & Wildlife, Esri, HERE, Garmin INCREMENT P, USGS, METI/NASA, EPA, USDA

New Mexico Oil Conservation Division



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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced O=orphaned, C=the file is closed)		•••					2=NE 3= st to larg	=SW 4=SE est) (N/) AD83 UTM in me	eters)	(1	In feet)	
POD Number	POD Sub- Code basin (Count		Q 16		Sec	Tws	Rna	х	Y	Distance	-	-	Water Column
L 04412 S	L	LE						37E	669189	3605491* 🌍	3259	155	84	71
L 04412	L	LE	4	2	2	13	20S	37E	669181	3605894* 🌍	3651	140	85	55
L 05350	L	LE		2	1	13	20S	37E	668279	3605980* 🌍	3672	100		
CP 01486 POD1	CP	LE	4	2	1	05	21S	37E	670333	3599085 🌍	3727	140	52	88
L 05351	L	LE		2	2	13	20S	37E	669082	3605995* 🌍	3733	115		
<u>L 10117</u>	L	LE	1	1	2	13	20S	37E	668580	3606086* 🌍	3775	130	70	60
										Avera	ge Depth to	Water:	72	feet
											Minimum	Depth:	52	feet
											Maximum	Depth:	85	feet
Pacard Count: 6														

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 668467.52

Northing (Y): 3602312.6

Radius: 3800

Page 27 of 142

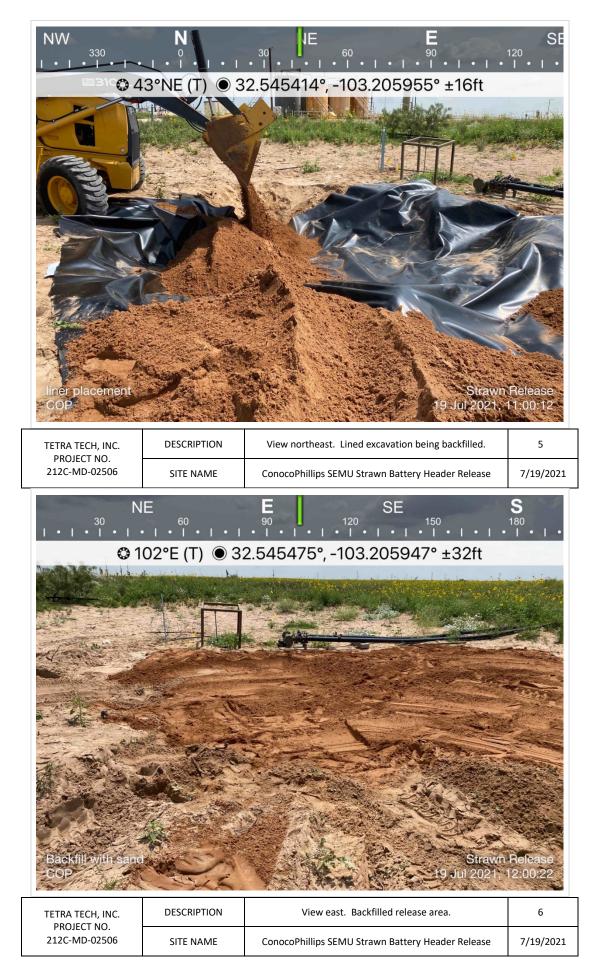
*UTM location was derived from PLSS - see Help

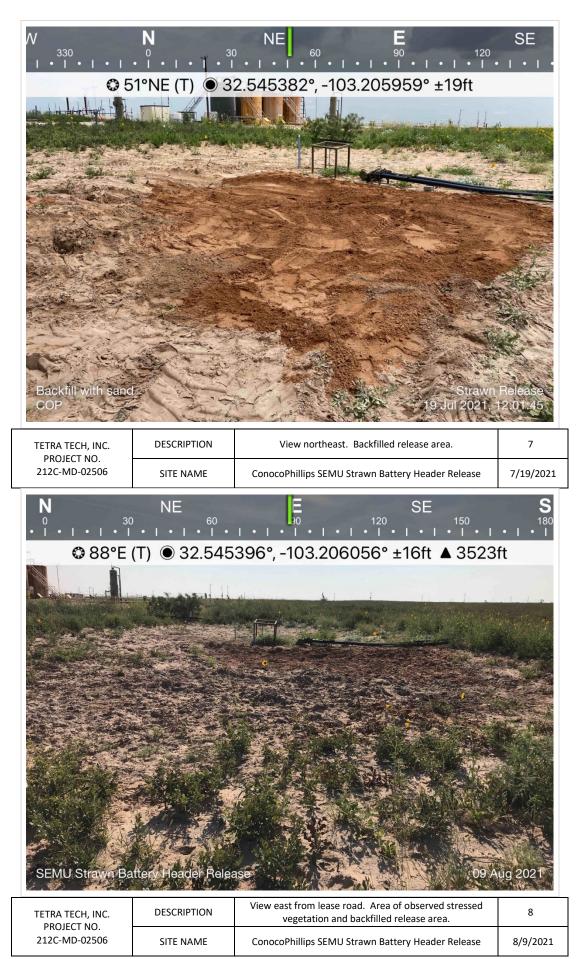
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

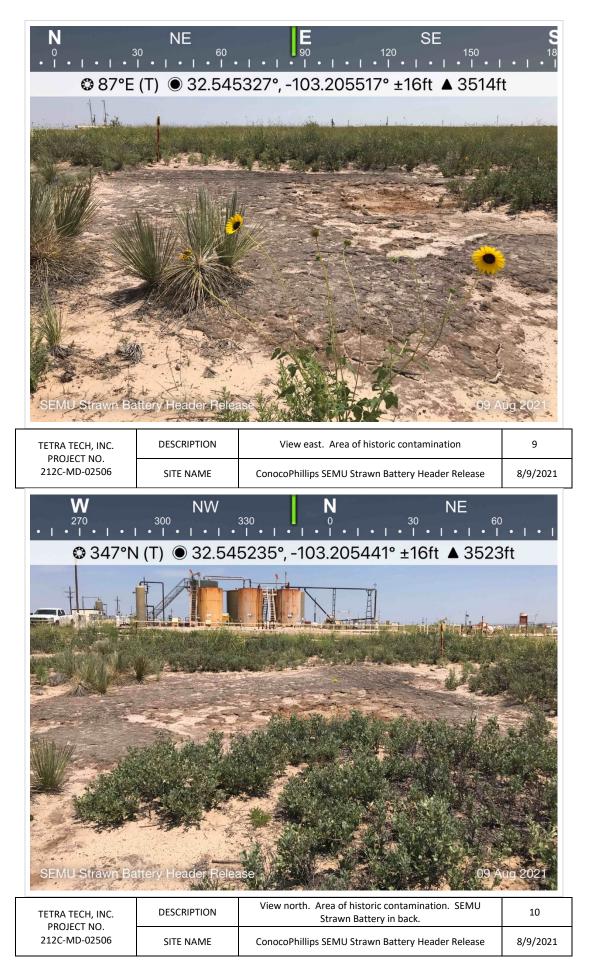
APPENDIX C Photographic Documentation











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APPENDIX D Laboratory Analytical Data

Received by OCD: 2/7/2022 10:46:30 PM

Page 35 of 142

ce Analytic	al® ANALYT	ICAL REPORT	¹ Cp
			² Tc
	ConocoPhillips - Te	tra Tech	³ Ss
	Sample Delivery Group:	L1379450	[*] Cn
	Samples Received:	07/16/2021	⁵ Sr
	Project Number:	212C-MD-02506	
	Description:	COP SEMU Strawn Battery	⁶ Qc
	Report To:	Christian Llull	⁷ Gl
		901 West Wall	⁸ Al
		Suite 100	9_
		Midland, TX 79701	[°] Sc

Entire Report Reviewed By:

Erica Mc Neese

Erica McNeese Project Manager

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

Pace Analytical National

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

Released to Imaging: 2/23/2022 10:26:59 AM ConocoPhillips - Tetra Tech PROJECT: 212C-MD-02506

SDG: L1379450 DATE/TIME: 07/27/21 17:23

PAGE: 1 of 18

TABLE OF CONTENTS

	Page 36 of 142
1	

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
FS-1(4') L1379450-01	5
SW-1 L1379450-02	6
SW-2 L1379450-03	7
SW-3 L1379450-04	8
SW-4 L1379450-05	9
Qc: Quality Control Summary	10
Total Solids by Method 2540 G-2011	10
Wet Chemistry by Method 300.0	11
Volatile Organic Compounds (GC) by Method 8015D/GRO	12
Volatile Organic Compounds (GC/MS) by Method 8260B	13
Semi-Volatile Organic Compounds (GC) by Method 8015M	14
GI: Glossary of Terms	15
Al: Accreditations & Locations	16
Sc: Sample Chain of Custody	17



PROJECT: 212C-MD-02506

SDG: L1379450

DATE/TIME: 07/27/21 17:23

PAGE: 2 of 18

SAMPLE SUMMARY

Received date/time Collected by Collected date/time 07/14/21 11:00 07/16/21 08:15 Adrian FS-1(4') L1379450-01 Solid Method Batch Dilution Preparation Analysis Analyst Location date/time date/time Total Solids by Method 2540 G-2011 WG1708355 1 07/21/21 14:48 07/21/21 15:03 KDW Minneapolis, MN Wet Chemistry by Method 300.0 WG1708710 1 07/20/21 17:15 07/21/21 02:11 ELN Mt. Juliet, TN Volatile Organic Compounds (GC) by Method 8015D/GRO WG1707328 1 07/17/21 19:49 07/18/21 19:32 DWR Mt. Juliet, TN Volatile Organic Compounds (GC/MS) by Method 8260B WG1707224 1 07/17/21 19:49 ADM Mt. Juliet, TN 07/18/21 00:00 Semi-Volatile Organic Compounds (GC) by Method 8015M WG1710167 1 07/23/21 14:02 07/24/21 03:57 JN Mt. Juliet, TN Collected by Collected date/time Received date/time 07/14/21 11:10 07/16/21 08:15 Adrian SW-1 L1379450-02 Solid Method Batch Dilution Preparation Analysis Analyst Location date/time date/time Total Solids by Method 2540 G-2011 WG1708355 1 07/21/21 14:48 07/21/21 15:03 KDW Minneapolis, MN Wet Chemistry by Method 300.0 WG1708710 1 07/20/21 17:15 07/21/21 02:21 FLN Mt. Juliet, TN WG1707328 07/17/21 19:49 Mt. Juliet, TN Volatile Organic Compounds (GC) by Method 8015D/GRO 1 07/18/21 19:55 DWR Volatile Organic Compounds (GC/MS) by Method 8260B WG1707224 07/17/21 19:49 07/18/21 00:19 ADM Mt. Juliet, TN 1 Semi-Volatile Organic Compounds (GC) by Method 8015M WG1710167 1 07/23/21 14:02 07/24/21 04.11 IN Mt Juliet TN Collected by Collected date/time Received date/time Adrian 07/14/21 11:20 07/16/21 08:15 SW-2 L1379450-03 Solid Method Batch Dilution Preparation Analysis Analyst Location date/time date/time Total Solids by Method 2540 G-2011 WG1708355 1 07/21/21 14:48 07/21/21 15:03 KDW Minneapolis, MN Wet Chemistry by Method 300.0 WG1708710 07/20/21 17:15 07/21/21 02:31 ELN Mt. Juliet, TN 1 Volatile Organic Compounds (GC) by Method 8015D/GRO WG1707328 07/18/21 20:19 DWR Mt. Juliet, TN 1 07/17/21 19:49 Volatile Organic Compounds (GC/MS) by Method 8260B WG1707224 1 07/17/21 19:49 07/18/21 00:38 ADM Mt. Juliet, TN Semi-Volatile Organic Compounds (GC) by Method 8015M WG1710167 1 07/23/21 14:02 07/24/21 04:25 IN Mt. Juliet, TN Collected by Collected date/time Received date/time Adrian 07/14/21 11:30 07/16/21 08:15 SW-3 L1379450-04 Solid Method Batch Dilution Preparation Analysis Location Analyst date/time date/time 07/21/21 14:48 07/21/21 15:03 KDW Total Solids by Method 2540 G-2011 WG1708355 1 Minneapolis, MN Wet Chemistry by Method 300.0 WG1708710 1 07/20/21 17:15 07/21/21 02:50 ELN Mt. Juliet, TN 1 DWR Mt. Juliet, TN Volatile Organic Compounds (GC) by Method 8015D/GRO WG1707328 07/17/21 19:49 07/18/21 20:43 Volatile Organic Compounds (GC/MS) by Method 8260B WG1707224 1 07/17/21 19:49 07/18/21 00:57 ADM Mt. Juliet, TN Semi-Volatile Organic Compounds (GC) by Method 8015M WG1710167 1 07/23/21 14:02 07/24/21 04:38 JN Mt. Juliet, TN Collected by Collected date/time Received date/time Adrian 07/14/21 11:50 07/16/21 08:15 SW-4 L1379450-05 Solid Method Batch Dilution Preparation Analysis Analyst Location date/time date/time WG1708355 07/21/21 14:48 07/21/21 15:03 KDW Total Solids by Method 2540 G-2011 1 Minneapolis, MN Wet Chemistry by Method 300.0 WG1708710 1 07/20/21 17:15 07/21/21 02:59 FI N Mt. Juliet, TN Volatile Organic Compounds (GC) by Method 8015D/GRO WG1707328 1 07/17/21 19:49 07/18/21 21:06 DWR Mt. Juliet, TN Volatile Organic Compounds (GC/MS) by Method 8260B WG1707224 1 07/17/21 19:49 07/18/21 01:16 ADM Mt. Juliet, TN Semi-Volatile Organic Compounds (GC) by Method 8015M WG1710167 1 07/23/21 14:02 07/24/21 04:52 JN Mt. Juliet. TN

PROJECT: 212C-MD-02506

SDG: L1379450

DATE/TIME: 07/27/21 17:23 PAGE: 3 of 18

Page 37 of 142

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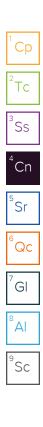
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CASE NARRATIVE

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.

Erica Mc Neese

Erica McNeese Project Manager



PROJECT: 212C-MD-02506

SDG: L1379450

DATE/TIME: 07/27/21 17:23

PAGE: 4 of 18 Reseived by OCD: 2/7/2022 10:46:30 PM Collected date/time: 07/14/21 11:00

SAMPLE RESULTS - 01 L1379450

Â

Sc

Total Solids by Method 2540 G-2011

							Cn
	Result	Qualifier	Dilution	Analysis	Batch		Ср
Analyte	%			date / time		r	2
Total Solids	85.2		1	07/21/2021 15:03	WG1708355		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			⁴ Cn
Chloride	U		10.8	23.5	1	07/21/2021 02:11	WG1708710		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	0.0404	<u>B J</u>	0.0255	0.117	1	07/18/2021 19:32	<u>WG1707328</u>	
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		07/18/2021 19:32	WG1707328	

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		0.000630	0.00135	1	07/18/2021 00:00	<u>WG1707224</u>
Toluene	U		0.00175	0.00675	1	07/18/2021 00:00	<u>WG1707224</u>
Ethylbenzene	U		0.000994	0.00337	1	07/18/2021 00:00	<u>WG1707224</u>
Total Xylenes	U		0.00119	0.00877	1	07/18/2021 00:00	<u>WG1707224</u>
(S) Toluene-d8	93.9			75.0-131		07/18/2021 00:00	<u>WG1707224</u>
(S) 4-Bromofluorobenzene	95.5			67.0-138		07/18/2021 00:00	<u>WG1707224</u>
(S) 1,2-Dichloroethane-d4	112			70.0-130		07/18/2021 00:00	WG1707224

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.97		1.89	4.70	1	07/24/2021 03:57	<u>WG1710167</u>
C28-C36 Motor Oil Range	5.15		0.322	4.70	1	07/24/2021 03:57	<u>WG1710167</u>
(S) o-Terphenyl	62.5			18.0-148		07/24/2021 03:57	WG1710167

SAMPLE RESULTS - 02 L1379450

Page 40 of 142

Total Solids by Method 2540 G-2011

Collected date/time: 07/14/21 11:10

						1 Cn
	Result	Qualifier	Dilution	Analysis	Batch	Cp
Analyte	%			date / time		2
Total Solids	96.0		1	07/21/2021 15:03	<u>WG1708355</u>	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	- I	
Analyte	mg/kg		mg/kg	mg/kg		date / time			4
Chloride	U		9.58	20.8	1	07/21/2021 02:21	WG1708710		

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
		Quanner			Dilution	,	Daten	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0396	<u>B J</u>	0.0226	0.104	1	07/18/2021 19:55	WG1707328	L
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		07/18/2021 19:55	WG1707328	

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		0.000506	0.00108	1	07/18/2021 00:19	<u>WG1707224</u>
Toluene	U		0.00141	0.00542	1	07/18/2021 00:19	<u>WG1707224</u>
Ethylbenzene	U		0.000799	0.00271	1	07/18/2021 00:19	WG1707224
Total Xylenes	U		0.000954	0.00704	1	07/18/2021 00:19	<u>WG1707224</u>
(S) Toluene-d8	95.3			75.0-131		07/18/2021 00:19	WG1707224
(S) 4-Bromofluorobenzene	95.8			67.0-138		07/18/2021 00:19	<u>WG1707224</u>
(S) 1,2-Dichloroethane-d4	113			70.0-130		07/18/2021 00:19	WG1707224

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

	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	07/24/2021 04:11	<u>WG1710167</u>
C28-C36 Motor Oil Range	U		0.285	4.17	1	07/24/2021 04:11	<u>WG1710167</u>
(S) o-Terphenyl	56.9			18.0-148		07/24/2021 04:11	WG1710167

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SAMPLE RESULTS - 03 L1379450

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Total Solids by Method 2540 G-2011

Collected date/time: 07/14/21 11:20

							Cn
	Resi	ılt <u>Qualifie</u>	r Dilution	Analysis	Batch		Ср
Analyte	%			date / time		Ē	2
Total Solids	95.5		1	07/21/2021 15:03	<u>WG1708355</u>		Tc

Wet Chemistry by Method 300.0

Wet Chemist	ry by Method 300	O.C						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		4 Cn
Chloride	U		9.63	20.9	1	07/21/2021 02:31	WG1708710	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	Qualifier	mg/kg	mg/kg	Dilution	date / time	baten	e
TPH (GC/FID) Low Fraction	0.0389	ВJ	0.0227	0.105	1	07/18/2021 20:19	WG1707328	
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		07/18/2021 20:19	WG1707328	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		0.000511	0.00109	1	07/18/2021 00:38	WG1707224
Toluene	U		0.00142	0.00547	1	07/18/2021 00:38	<u>WG1707224</u>
Ethylbenzene	U		0.000806	0.00273	1	07/18/2021 00:38	WG1707224
Total Xylenes	U		0.000962	0.00711	1	07/18/2021 00:38	<u>WG1707224</u>
(S) Toluene-d8	93.9			75.0-131		07/18/2021 00:38	WG1707224
(S) 4-Bromofluorobenzene	96.9			67.0-138		07/18/2021 00:38	<u>WG1707224</u>
(S) 1,2-Dichloroethane-d4	111			70.0-130		07/18/2021 00:38	WG1707224

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

	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	4.19	1	07/24/2021 04:25	<u>WG1710167</u>
C28-C36 Motor Oil Range	1.11	J	0.287	4.19	1	07/24/2021 04:25	<u>WG1710167</u>
(S) o-Terphenyl	58.0			18.0-148		07/24/2021 04:25	WG1710167

SAMPLE RESULTS - 04

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Total Solids by Method 2540 G-2011

Collected date/time: 07/14/21 11:30

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	Result	Qualifier	Dilution	Analysis	Batch		-h
Analyte	%			date / time		2	
Total Solids	95.4		1	07/21/2021 15:03	WG1708355	T	Τс

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		9.64	21.0	1	07/21/2021 02:50	WG1708710	

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

	Result (dry)	Qualifior	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
	Result (ury)	Qualifier	MDL (ury)	KDL (ury)	Dilution	,	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0484	<u>B J</u>	0.0227	0.105	1	07/18/2021 20:43	WG1707328	
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		07/18/2021 20:43	WG1707328	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		0.000512	0.00110	1	07/18/2021 00:57	WG1707224
Toluene	U		0.00143	0.00548	1	07/18/2021 00:57	<u>WG1707224</u>
Ethylbenzene	U		0.000808	0.00274	1	07/18/2021 00:57	WG1707224
Total Xylenes	U		0.000965	0.00713	1	07/18/2021 00:57	<u>WG1707224</u>
(S) Toluene-d8	95.2			75.0-131		07/18/2021 00:57	WG1707224
(S) 4-Bromofluorobenzene	97.9			67.0-138		07/18/2021 00:57	<u>WG1707224</u>
(S) 1,2-Dichloroethane-d4	109			70.0-130		07/18/2021 00:57	WG1707224

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.18	J	1.69	4.19	1	07/24/2021 04:38	<u>WG1710167</u>
C28-C36 Motor Oil Range	2.87	J	0.287	4.19	1	07/24/2021 04:38	<u>WG1710167</u>
(S) o-Terphenyl	66.3			18.0-148		07/24/2021 04:38	WG1710167

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SAMPLE RESULTS - 05

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Total Solids by Method 2540 G-2011

Collected date/time: 07/14/21 11:50

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	Result	Qualifier Dilution	Analysis	Batch	Cp
Analyte	%		date / time		2
Total Solids	96.1	1	07/21/2021 15:03	WG1708355	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		9.58	20.8	1	07/21/2021 02:59	WG1708710

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

	Result (dry)	Qualifior	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
	Result (uly)	Qualifier	MDL (ury)	KDL (uly)	Dilution	Allalysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0385	<u>B J</u>	0.0226	0.104	1	07/18/2021 21:06	<u>WG1707328</u>	
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120		07/18/2021 21:06	WG1707328	

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		0.000505	0.00108	1	07/18/2021 01:16	<u>WG1707224</u>
Toluene	U		0.00141	0.00541	1	07/18/2021 01:16	<u>WG1707224</u>
Ethylbenzene	U		0.000797	0.00270	1	07/18/2021 01:16	WG1707224
Total Xylenes	U		0.000952	0.00703	1	07/18/2021 01:16	WG1707224
(S) Toluene-d8	95.8			75.0-131		07/18/2021 01:16	WG1707224
(S) 4-Bromofluorobenzene	95.9			67.0-138		07/18/2021 01:16	WG1707224
(S) 1,2-Dichloroethane-d4	111			70.0-130		07/18/2021 01:16	WG1707224

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

	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	4.16	1	07/24/2021 04:52	<u>WG1710167</u>
C28-C36 Motor Oil Range	U		0.285	4.16	1	07/24/2021 04:52	<u>WG1710167</u>
(S) o-Terphenyl	57.8			18.0-148		07/24/2021 04:52	WG1710167

DATE/TIME: 07/27/21 17:23

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Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY L1379450-01,02,03,04,05

Page 44 of 142

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Method Blank (MB)

Method Blank							
(MB) R3682490-1 0	7/21/21 15:03						
	MB Result	MB Qualifier	MB MDL	MB RDL			
Analyte	%		%	%			
Total Solids	0.00200						

L1379450-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1379450-04 O7/21							⁴ Cn
Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	⁵ Sr
Total Solids	95.4	95.7	1	0.238		10	⁶ Q

Laboratory Control Sample (LCS)

(LCS) R3682490-2 07	7/21/21 15:03				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

SDG: L1379450

DATE/TIME: 07/27/21 17:23

PAGE: 10 of 18

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Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3682065-1 07/2	20/21 22:17			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		9.20	20.0

L1375778-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1375778-04 07/20	0/21 23:04 • (DUP) R3682065-3	3 07/20/2	1 23:14		
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	86.9	93.1	1	6.84		20

L1379450-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1379450-03 07/21/2	21 02:31 • (DUP)	R3682065-6	07/21/21 (02:40		
	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) R3682065-2 07/20	0/21 22:26				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	201	101	90.0-110	

L1378224-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1378224-01 07/20/2	21 23:23 • (MS)	R3682065-4 C	7/20/21 23:33	• (MSD) R3682	065-5 07/20/	21 23:42						
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	542	38700	46900	44100	1510	996	100	80.0-120	V	$\underline{\vee}$	6.12	20

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PROJECT: 212C-MD-02506

SDG: L1379450 DATE/TIME: 07/27/21 17:23

PAGE: 11 of 18

Page 45 of 142

³Ss ⁴Cn ⁵Sr ⁶Qc ⁷Gl ⁸Al ⁹Sc

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

QUALITY CONTROL SUMMARY

Page 46 of 142

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Method Blank (MB)

(MB) R3682722-2 07/18/	21 14:49	-			
	MB Result	MB Qualifier	MB MDL	MB RDL	E
Analyte	mg/kg		mg/kg	mg/kg	
TPH (GC/FID) Low Fraction	0.0262	J	0.0217	0.100	_ L
(S) a,a,a-Trifluorotoluene(FID)	103			77.0-120	1

Laboratory Control Sample (LCS)

(LCS) R3682722-1 07/18/	21 14:02				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	5.51	100	72.0-127	
(S) a.a.a-Trifluorotoluene(FID)			111	77.0-120	

L1379332-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1379332-01 07/18/2	123:04 • (MS) F	3682722-3 0	7/18/21 23:28 •	(MSD) R36827	22-4 07/18/21	23:51						
	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	%	%		%			%	%
TPH (GC/FID) Low Fraction	545	262	788	800	96.5	98.7	100	10.0-151			1.51	28
(S) a,a,a-Trifluorotoluene(FID)					117	118		77.0-120				

SDG: L1379450 DATE/TIME: 07/27/21 17:23

PAGE: 12 of 18 Volatile Organic Compounds (GC/MS) by Method 8260B

QUALITY CONTROL SUMMARY

Method Blank (MB)

	<i>'</i>)				
(MB) R3684440-2 07/17/2	21 20:50				
	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	94.0			75.0-131	
(S) 4-Bromofluorobenzene	96.6			67.0-138	
(S) 1,2-Dichloroethane-d4	107			70.0-130	

Laboratory Control Sample (LCS)

(LCS) R3684440-1 07/17/	21 19:53				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Benzene	0.125	0.146	117	70.0-123	
Ethylbenzene	0.125	0.100	80.0	74.0-126	
Toluene	0.125	0.106	84.8	75.0-121	
Xylenes, Total	0.375	0.301	80.3	72.0-127	
(S) Toluene-d8			88.8	75.0-131	
(S) 4-Bromofluorobenzene			101	67.0-138	
(S) 1,2-Dichloroethane-d4			130	70.0-130	

L1379323-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1379323-01 07/18/2	1 01:35 • (MS) R	3684440-3 07	/18/21 03:47 •	(MSD) R368444	40-4 07/18/21 0	04:06						
	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	%	%		%			%	%
Benzene	1.00	0.0124	1.46	1.48	145	147	8	10.0-149			1.36	37
Ethylbenzene	1.00	4.26	5.14	4.93	88.0	67.0	8	10.0-160			4.17	38
Toluene	1.00	3.03	3.99	3.89	96.0	86.0	8	10.0-156			2.54	38
Xylenes, Total	3.00	31.6	32.3	32.2	23.3	20.0	8	10.0-160			0.310	38
(S) Toluene-d8					87.6	88.8		75.0-131				
(S) 4-Bromofluorobenzene					98.2	102		67.0-138				
(S) 1,2-Dichloroethane-d4					133	128		70.0-130	<u>J1</u>			

Page 47 of 142

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PROJECT: 212C-MD-02506

SDG: L1379450 DATE/TIME: 07/27/21 17:23 PAGE: 13 of 18 Semi-Volatile Organic Compounds (GC) by Method 8015M

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3683579-1 07/24/2	21 03:30			
	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-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	60.8			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3683579-2 07/2	24/21 03:44				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	37.1	74.2	50.0-150	
(S) o-Terphenyl			67.0	18.0-148	

L1379394-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1379394-01 07/24/	21 07:37 • (MS) F	R3683579-3 0	7/24/2107:50 •	(MSD) R3683	579-4 07/24/2	21 08:04						
	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	48.9	25.3	62.0	47.0	75.2	44.6	1	50.0-150		<u>13 16</u>	27.7	20
(S) o-Terphenyl					65.4	57.5		18.0-148				

DATE/TIME: 07/27/21 17:23 PAGE: 14 of 18 ²Tc ³Ss ⁴Cn ⁵Sr ⁶Qc ⁷Gl ⁸Al ⁹Sc

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Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
В	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

PROJECT: 212C-MD-02506

SDG: L1379450 DATE/TIME: 07/27/21 17:23

PAGE: 15 of 18

Received by OCD: 2/7/2022 10:46:30 PM CCREDITATIONS & LOCATIONS

0 0	Page	50	of	142
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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	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ¹⁴	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
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

* 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 Analytical.

PROJECT: 212C-MD-02506

SDG: L1379450

PAGE: 16 of 18

²Tc ³Ss ⁴Cn ⁵Sr ⁶Qc ⁷Gl ⁸Al

DAGE

Analysis Request of Chain of Custody Record

L-198

U3 - Page 51 of 142 Page: 1 of 1

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Pace Analytical National Center for Testing & Inno	vation	
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Cooler Received/Opened On: 7/ / 6 / 21 Temperature	: 4.2	
Received By: Bably Achery		
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Receipt Check List	Yes	No
COC Seal Present / Intact?	/	
COC Signed / Accurate?	/	
Bottles arrive intact?	/	
Correct bottles used?	/	
Sufficient volume sent?	11	
If Applicable	1	
VOA Zero headspace?		
Preservation Correct / Checked?	1	

Page 53 of 142



Entire Report Reviewed By:

Chu, foph June

Chris McCord Project Manager

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

Pace Analytical National

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

Released to Imaging: 2/25/2022 10:26:59 AM ConocoPhillips - Tetra Tech

PROJECT: 212C-MD-02506

SDG: L1389289

DATE/TIME: 08/25/21 13:34 PAGE: 1 of 41

TABLE OF CONTENTS

Page	54 d	of 14	2
------	------	-------	---

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	7
Sr: Sample Results	8
AH-1 (0-1') L1389289-01	8
AH-1 (2-3') L1389289-02	9
AH-2 (0-1') L1389289-03	10
AH-2 (2-3') L1389289-04	11
AH-3 (0-1') L1389289-05	12
AH-3 (2-3') L1389289-06	13
AH-4 (0-1') L1389289-07	14
AH-4 (2-3') L1389289-08	15
AH-5 (0-1') L1389289-09	16
AH-5 (2-3') L1389289-10	17
AH-6 (0-1') L1389289-11	18
AH-6 (2-3') L1389289-12	19
AH-7 (0-1') L1389289-13	20
AH-7 (2-3') L1389289-14	21
AH-8 (0-1') L1389289-15	22
AH-8 (2-3') L1389289-16	23
AH-9 (0-1') L1389289-17	24
AH-9 (2-3') L1389289-18	25
AH-10 (0-1') L1389289-19	26
AH-10 (2-3') L1389289-20	27
Qc: Quality Control Summary	28
Total Solids by Method 2540 G-2011	28
Wet Chemistry by Method 300.0	31
Volatile Organic Compounds (GC) by Method 8015D/GRO	32
Volatile Organic Compounds (GC/MS) by Method 8260B	34
Semi-Volatile Organic Compounds (GC) by Method 8015M	35
GI: Glossary of Terms	38
Al: Accreditations & Locations	39
Sc: Sample Chain of Custody	40



PROJECT: 212C-MD-02506

SDG: L1389289 DATE/TIME: 08/25/21 13:34

ME: 3:34 PAGE: 2 of 41

SAMPLE SUMMARY

AH-1 (0-1') L1389289-01 Solid			Collected by Andrew Garcia	Collected date/time 08/09/21 08:30	Received dat 08/11/21 08:0	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1723777	1	08/17/21 10:58	08/17/21 11:06	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1722198	1	08/12/21 19:57	08/13/21 03:08	MSP	Mt. Juliet, TN
/olatile Organic Compounds (GC) by Method 8015D/GRO	WG1722789	1	08/12/21 16:32	08/14/21 15:24	AV	Mt. Juliet, TN
/olatile Organic Compounds (GC/MS) by Method 8260B	WG1722516	1	08/12/21 16:32	08/12/21 21:14	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1725444	1	08/19/21 16:03	08/22/21 07:40	CAG	Mt. Juliet, TN
AH-1 (2-3') L1389289-02 Solid			Collected by Andrew Garcia	Collected date/time 08/09/21 08:45	Received dat 08/11/21 08:0	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
otal Solids by Method 2540 G-2011	WG1723778	1	08/18/21 06:43	08/18/21 06:49	СМК	Mt. Juliet, TN
Net Chemistry by Method 300.0	WG1722198	1	08/18/21 06.43	08/13/21 03:18	MSP	Mt. Juliet, TN Mt. Juliet, TN
/olatile Organic Compounds (GC) by Method 8015D/GRO	WG1722198 WG1722789	1	08/12/21 19:57	08/14/21 15:48	AV	Mt. Juliet, TN Mt. Juliet, TN
/olatile Organic Compounds (GC/MS) by Method 8015D/GRO	WG1722789 WG1722516	1	08/12/21 16:32	08/12/21 21:33	BMB	Mt. Juliet, Tr Mt. Juliet, TN
Semi-Volatile Organic Compounds (GCMs) by Method 82608	WG1722516 WG1725444	1	08/12/21 16:32	08/12/21 21:33	CAG	Mt. Juliet, TN Mt. Juliet, TN
AH-2 (0-1') L1389289-03 Solid			Collected by Andrew Garcia	Collected date/time 08/09/21 09:00	Received dat 08/11/21 08:0	
Aethod	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Fotal Solids by Method 2540 G-2011	WG1723778	1	08/18/21 06:43	08/18/21 06:49	СМК	Mt. Juliet, TN
Vet Chemistry by Method 300.0	WG1722198	1	08/12/21 19:57	08/13/21 03:27	MSP	Mt. Juliet, TN
olatile Organic Compounds (GC) by Method 8015D/GRO	WG1722789	1	08/12/21 16:32	08/14/21 16:11	AV	Mt. Juliet, TN
olatile Organic Compounds (GC/MS) by Method 8260B	WG1722516	1	08/12/21 16:32	08/12/21 21:52	BMB	Mt. Juliet, TN
emi-Volatile Organic Compounds (GC) by Method 8015M	WG1725447	1	08/20/21 08:56	08/20/21 17:09	CAG	Mt. Juliet, TN
			Collected by	Collected date/time		
AH-2 (2-3') L1389289-04 Solid			Andrew Garcia	08/09/21 09:15	08/11/21 08:0	0
N ethod	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Fotal Solids by Method 2540 G-2011	WG1723778	1	08/18/21 06:43	08/18/21 06:49	СМК	Mt. Juliet, TN
Vet Chemistry by Method 300.0	WG1722198	1	08/12/21 19:57	08/13/21 03:37	MSP	Mt. Juliet, TN
olatile Organic Compounds (GC) by Method 8015D/GRO	WG1722789	1	08/12/21 16:32	08/14/21 16:35	AV	Mt. Juliet, TN
/olatile Organic Compounds (GC/MS) by Method 8260B	WG1722516	1	08/12/21 16:32	08/12/21 22:12	BMB	Mt. Juliet, TN
emi-Volatile Organic Compounds (GC) by Method 8015M	WG1725447	1	08/20/21 08:56	08/20/21 16:56	CAG	Mt. Juliet, TN
AH-3 (0-1') L1389289-05 Solid			Collected by Andrew Garcia	Collected date/time 08/09/21 09:30	Received dat 08/11/21 08:0	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Fotal Solids by Method 2540 G-2011	WG1723778	1	08/18/21 06:43	08/18/21 06:49	СМК	Mt. Juliet, TN
Vet Chemistry by Method 300.0	WG1722198	1	08/12/21 19:57	08/13/21 03:46	MSP	Mt. Juliet, TN
/olatile Organic Compounds (GC) by Method 8015D/GRO	WG1722789	1	08/12/21 16:32	08/14/21 16:59	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1722516	1	08/12/21 16:32	08/12/21 22:30	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1725447	1	08/20/21 08:56	08/20/21 17:23	CAG	Mt. Juliet, TN

PROJECT: 212C-MD-02506

SDG: L1389289 DATE/TIME: 08/25/21 13:34

PAGE: 3 of 41

Page 55 of 142

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SAMPLE SUMMARY

AH-3 (2-3') L1389289-06 Solid			Collected by Andrew Garcia	Collected date/time 08/09/21 09:45	08/11/21 08:0	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1723778	1	08/18/21 06:43	08/18/21 06:49	СМК	Mt. Juliet, TN
Net Chemistry by Method 300.0	WG1722198	1	08/12/21 19:57	08/13/21 03:56	MSP	Mt. Juliet, TN
/olatile Organic Compounds (GC) by Method 8015D/GRO	WG1722789	1	08/12/21 16:32	08/14/21 17:22	AV	Mt. Juliet, TN
/olatile Organic Compounds (GC/MS) by Method 8260B	WG1722516	1	08/12/21 16:32	08/12/21 22:49	BMB	Mt. Juliet, TN
emi-Volatile Organic Compounds (GC) by Method 8015M	WG1725447	1	08/20/21 08:56	08/20/21 17:36	CAG	Mt. Juliet, TN
AH-4 (0-1') L1389289-07 Solid			Collected by Andrew Garcia	Collected date/time 08/09/21 10:00	Received da 08/11/21 08:0	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Fotal Solids by Method 2540 G-2011	WG1723778	1	08/18/21 06:43	08/18/21 06:49	CMK	Mt. Juliet, TN
Vet Chemistry by Method 300.0	WG1722198	1	08/12/21 19:57	08/13/21 04:05	MSP	Mt. Juliet, TN
olatile Organic Compounds (GC) by Method 8015D/GRO	WG1722789	1	08/12/21 16:32	08/14/21 17:46	AV	Mt. Juliet, TN
/olatile Organic Compounds (GC/MS) by Method 8260B	WG1722516	1	08/12/21 16:32	08/12/21 23:08	BMB	Mt. Juliet, TN
emi-Volatile Organic Compounds (GC) by Method 8015M	WG1725447	1	08/20/21 08:56	08/20/21 17:49	CAG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AH-4 (2-3') L1389289-08 Solid			Andrew Garcia	08/09/21 10:15	08/11/21 08:0	00
lethod	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
otal Solids by Method 2540 G-2011	WG1723778	1	08/18/21 06:43	08/18/21 06:49	СМК	Mt. Juliet, TN
Vet Chemistry by Method 300.0	WG1722198	1	08/12/21 19:57	08/13/21 04:43	MSP	Mt. Juliet, TN
olatile Organic Compounds (GC) by Method 8015D/GRO	WG1722789	1	08/12/21 16:32	08/14/21 18:09	AV	Mt. Juliet, TN
olatile Organic Compounds (GC/MS) by Method 8260B	WG1722516	1	08/12/21 16:32	08/12/21 23:27	BMB	Mt. Juliet, TN
emi-Volatile Organic Compounds (GC) by Method 8015M	WG1725447	1	08/20/21 08:56	08/20/21 18:02	CAG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AH-5 (0-1') L1389289-09 Solid			Andrew Garcia	08/09/2110:30	08/11/21 08:0	00
<i>l</i> ethod	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
otal Solids by Method 2540 G-2011	WG1723778	1	08/18/21 06:43	08/18/21 06:49	СМК	Mt. Juliet, TN
Vet Chemistry by Method 300.0	WG1722198	1	08/12/21 19:57	08/13/21 04:53	MSP	Mt. Juliet, TN
olatile Organic Compounds (GC) by Method 8015D/GRO	WG1722789	1	08/12/21 16:32	08/14/21 18:33	AV	Mt. Juliet, TN
olatile Organic Compounds (GC/MS) by Method 8260B	WG1722516	1	08/12/21 16:32	08/12/21 23:46	BMB	Mt. Juliet, TN
emi-Volatile Organic Compounds (GC) by Method 8015M	WG1725447	1	08/20/21 08:56	08/20/21 18:15	CAG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AH-5 (2-3') L1389289-10 Solid			Andrew Garcia	08/09/2110:45	08/11/21 08:0	00
Aethod	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
otal Solids by Method 2540 G-2011	WG1723778	1	08/18/21 06:43	08/18/21 06:49	СМК	Mt. Juliet, TN
Vet Chemistry by Method 300.0	WG1722198	1	08/12/21 19:57	08/13/21 05:02	MSP	Mt. Juliet, TN
/olatile Organic Compounds (GC) by Method 8015D/GRO	WG1722789	1	08/12/21 16:32	08/14/21 18:56	AV	Mt. Juliet, TN
/olatile Organic Compounds (GC/MS) by Method 8260B	WG1722516	1	08/12/21 16:32	08/13/21 00:05	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1725447	1	08/20/21 08:56	08/20/21 18:28	CAG	Mt. Juliet, TN

PROJECT: 212C-MD-02506

SDG: L1389289 DATE/TIME: 08/25/21 13:34

PAGE: 4 of 41

Page 56 of 142

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SAMPLE SUMMARY

AH-6 (0-1') L1389289-11 Solid			Collected by Andrew Garcia	Collected date/time 08/09/21 11:00	Received da 08/11/21 08:0	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1723778	1	08/18/21 06:43	08/18/21 06:49	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1722198	1	08/12/21 19:57	08/13/21 05:12	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1722789	1	08/12/21 16:32	08/14/21 19:19	AV	Mt. Juliet, TN
/olatile Organic Compounds (GC/MS) by Method 8260B	WG1722516	1	08/12/21 16:32	08/13/21 00:24	BMB	Mt. Juliet, TN
emi-Volatile Organic Compounds (GC) by Method 8015M	WG1725447	10	08/20/21 08:56	08/20/21 19:21	CAG	Mt. Juliet, TN
			Collected by	Collected date/time		
AH-6 (2-3') L1389289-12 Solid			Andrew Garcia	08/09/21 11:15	08/11/21 08:0	00
fethod	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Fotal Solids by Method 2540 G-2011	WG1723779	1	08/18/21 06:33	08/18/21 06:42	СМК	Mt. Juliet, TN
Net Chemistry by Method 300.0	WG1722198	1	08/12/21 19:57	08/13/21 05:21	MSP	Mt. Juliet, TN
/olatile Organic Compounds (GC) by Method 8015D/GRO	WG1722789	1	08/12/21 16:32	08/14/21 19:43	AV	Mt. Juliet, TN
/olatile Organic Compounds (GC/MS) by Method 8260B	WG1722516	1	08/12/21 16:32	08/13/21 00:43	BMB	Mt. Juliet, TN
emi-Volatile Organic Compounds (GC) by Method 8015M	WG1725447	10	08/20/21 08:56	08/20/21 19:34	CAG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AH-7 (0-1') L1389289-13 Solid			Andrew Garcia	08/09/21 11:30	08/11/21 08:0	00
lethod	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
otal Solids by Method 2540 G-2011	WG1723779	1	08/18/21 06:33	08/18/21 06:42	СМК	Mt. Juliet, TN
et Chemistry by Method 300.0	WG1722198	1	08/12/21 19:57	08/13/21 05:31	MSP	Mt. Juliet, TN
platile Organic Compounds (GC) by Method 8015D/GRO	WG1722789	1	08/12/21 16:32	08/14/21 20:06	AV	Mt. Juliet, TN
olatile Organic Compounds (GC/MS) by Method 8260B	WG1722516	1	08/12/21 16:32	08/13/21 01:02	BMB	Mt. Juliet, TN
emi-Volatile Organic Compounds (GC) by Method 8015M	WG1725447	1	08/20/21 08:56	08/20/21 18:55	CAG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AH-7 (2-3') L1389289-14 Solid			Andrew Garcia	08/09/21 11:45	08/11/21 08:0	00
flethod	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Fotal Solids by Method 2540 G-2011	WG1723779	1	08/18/21 06:33	08/18/21 06:42	СМК	Mt. Juliet, TN
Vet Chemistry by Method 300.0	WG1722198	1	08/12/21 19:57	08/13/21 05:40	MSP	Mt. Juliet, TN
/olatile Organic Compounds (GC) by Method 8015D/GRO	WG1722789	1	08/12/21 16:32	08/14/21 20:30	AV	Mt. Juliet, TN
/olatile Organic Compounds (GC/MS) by Method 8260B	WG1722516	1	08/12/21 16:32	08/13/21 01:22	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1725448	40	08/20/21 08:54	08/23/21 02:16	CAG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AH-8 (0-1') L1389289-15 Solid			Andrew Garcia	08/09/2112:00	08/11/21 08:0	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1723779	1	08/18/21 06:33	08/18/21 06:42	СМК	Mt. Juliet, TN
Net Chemistry by Method 300.0	WG1722198	1	08/12/21 19:57	08/13/21 05:50	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1722789	1	08/12/21 16:32	08/14/21 20:53	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1722516	1	08/12/21 16:32	08/13/21 01:41	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1725448	1	08/20/21 08:54	08/23/21 01:49	CAG	Mt. Juliet, TN

PROJECT: 212C-MD-02506

SDG: L1389289

DATE/TIME: 08/25/21 13:34 PAGE: 5 of 41

Page 57 of 142

SAMPLE SUMMARY

AH-8 (2-3') L1389289-16 Solid			Collected by Andrew Garcia	Collected date/time 08/09/21 12:15	Received dat 08/11/21 08:0	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1723779	1	08/18/21 06:33	08/18/21 06:42	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1722198	1	08/12/21 19:57	08/13/21 06:00	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1722789	1	08/12/21 16:32	08/14/21 21:17	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1722516	1	08/12/21 16:32	08/13/21 02:00	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1725448	5	08/20/21 08:54	08/23/21 02:29	CAG	Mt. Juliet, TN
			Collected by Andrew Garcia	Collected date/time 08/09/21 12:30	Received dat 08/11/21 08:0	
AH-9 (0-1') L1389289-17 Solid			Andrew Garcia	00/03/2112.30	00/11/21 00:0	0
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1723779	1	08/18/21 06:33	08/18/21 06:42	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1722198	1	08/12/21 19:57	08/13/21 06:09	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1722977	1	08/12/21 16:32	08/14/21 06:19	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1722516	1	08/12/21 16:32	08/13/21 02:19	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1725448	40	08/20/21 08:54	08/21/21 21:17	CAG	Mt. Juliet, TN
			Collected by	Collected date/time	Received dat	e/time
AH-9 (2-3') L1389289-18 Solid			Andrew Garcia	08/09/2112:45	08/11/21 08:0	0
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
T			date/time	date/time	014/	NA: 1 1: . Th
Total Solids by Method 2540 G-2011	WG1723779	1	08/18/21 06:33	08/18/21 06:42	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1722198	1	08/12/21 19:57	08/13/21 07:06	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1722977	1	08/12/21 16:32	08/14/21 08:14	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1722516 WG1725448	1 1	08/12/21 16:32 08/20/21 08:54	08/13/21 02:38 08/21/21 18:53	BMB CAG	Mt. Juliet, TN Mt. Juliet, TN
			Collected by	Collected date/time	Received dat	e/time
AH-10 (0-1') L1389289-19 Solid			Andrew Garcia	08/09/2113:00	08/11/21 08:0	0
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1723779	1	08/18/21 06:33	08/18/21 06:42	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1722198	1	08/12/21 19:57	08/13/21 07:16	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1722977	1	08/12/21 16:32	08/14/21 08:35	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1722516	1	08/12/21 16:32	08/13/21 02:57	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1725448	1	08/20/21 08:54	08/23/21 02:03	CAG	Mt. Juliet, TN
			Collected by	Collected date/time	Received dat	e/time
AH-10 (2-3') L1389289-20 Solid			Andrew Garcia	08/09/21 13:15	08/11/21 08:0	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1723779	1	08/18/21 06:33	08/18/21 06:42	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1722198	1	08/12/21 19:57	08/13/21 07:25	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1722977	1	08/12/21 16:32	08/14/21 08:57	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1722516	1	08/12/21 16:32	08/13/21 03:16	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1725448	10	08/20/21 08:54	08/23/21 02:42	CAG	Mt. Juliet, TI

PROJECT: 212C-MD-02506

SDG: L1389289

DATE/TIME: 08/25/21 13:34 PAGE: 6 of 41

Page 58 of 142

CASE NARRATIVE

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

Chris McCord Project Manager

Released to Imaging: 2/25/2022 10:26:59 AM ConocoPhillips - Tetra Tech PROJECT: 212C-MD-02506

SDG: L1389289 DA1 08/2

DATE/TIME: 08/25/2113:34 PAGE: 7 of 41

SAMPLE RESULTS - 01

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Total Solids by Method 2540 G-2011

Collected date/time: 08/09/21 08:30

	-	Result	Qualifier	Dilution	Analysis	Batch	-	Ср
Analyte		%			date / time		ř	2
Total Solids		83.2		1	08/17/2021 11:06	WG1723777		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		11.1	24.0	1	08/13/2021 03:08	WG1722198	

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

	Result (dry)	Result (dry) Qualifier MDL (dry) RDL (dry) Dilution Analysis		Analysis	Batch			
	Result (ury)	Quanner		KDL (dry)	Diution	,	Daten	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0621	<u>B J</u>	0.0261	0.120	1	08/14/2021 15:24	WG1722789	
(S) a,a,a-Trifluorotoluene(FID)	98.4			77.0-120		08/14/2021 15:24	WG1722789	

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		0.000656	0.00140	1	08/12/2021 21:14	<u>WG1722516</u>
Toluene	U		0.00183	0.00702	1	08/12/2021 21:14	<u>WG1722516</u>
Ethylbenzene	U		0.00104	0.00351	1	08/12/2021 21:14	WG1722516
Total Xylenes	U		0.00124	0.00913	1	08/12/2021 21:14	<u>WG1722516</u>
(S) Toluene-d8	106			75.0-131		08/12/2021 21:14	WG1722516
(S) 4-Bromofluorobenzene	96.9			67.0-138		08/12/2021 21:14	<u>WG1722516</u>
(S) 1,2-Dichloroethane-d4	117			70.0-130		08/12/2021 21:14	WG1722516

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.35	J	1.93	4.81	1	08/22/2021 07:40	WG1725444
C28-C36 Motor Oil Range	5.70		0.329	4.81	1	08/22/2021 07:40	<u>WG1725444</u>
(S) o-Terphenyl	56.1			18.0-148		08/22/2021 07:40	WG1725444

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SAMPLE RESULTS - 02 L1389289

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Total Solids by Method 2540 G-2011

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	Result	Qualifier	Dilution	Analysis	Batch	Cp
Analyte	%			date / time		2
Total Solids	83.8		1	08/18/2021 06:49	<u>WG1723778</u>	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	11.0	23.9	1	08/13/2021 03:18	WG1722198		CII

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	duamor	mg/kg	mg/kg	2.100.011	date / time	201011	
TPH (GC/FID) Low Fraction	0.0434	<u>B J</u>	0.0259	0.119	1	08/14/2021 15:48	WG1722789	
(S) a,a,a-Trifluorotoluene(FID)	98.8			77.0-120		08/14/2021 15:48	WG1722789	

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		0.000647	0.00139	1	08/12/2021 21:33	WG1722516
Toluene	U		0.00180	0.00693	1	08/12/2021 21:33	WG1722516
Ethylbenzene	U		0.00102	0.00347	1	08/12/2021 21:33	WG1722516
Total Xylenes	U		0.00122	0.00901	1	08/12/2021 21:33	WG1722516
(S) Toluene-d8	107			75.0-131		08/12/2021 21:33	WG1722516
(S) 4-Bromofluorobenzene	81.8			67.0-138		08/12/2021 21:33	WG1722516
(S) 1,2-Dichloroethane-d4	103			70.0-130		08/12/2021 21:33	WG1722516

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.92	4.77	1	08/22/2021 07:54	<u>WG1725444</u>
C28-C36 Motor Oil Range	U		0.327	4.77	1	08/22/2021 07:54	<u>WG1725444</u>
(S) o-Terphenyl	51.5			18.0-148		08/22/2021 07:54	WG1725444

Recrived by OCD: 2/7/2022 10:46:30 PM Collected date/time: 08/09/21 09:00

SAMPLE RESULTS - 03 L1389289

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	96.9		1	08/18/2021 06:49	<u>WG1723778</u>	Tc

Wet Chemistry by Method 300.0

Wet Chemistry	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	U		9.49	20.6	1	08/13/2021 03:27	WG1722198		

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	Allalysis	Batch	e
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0804	<u>B J</u>	0.0224	0.103	1	08/14/2021 16:11	WG1722789	L
(S) a,a,a-Trifluorotoluene(FID)	98.6			77.0-120		08/14/2021 16:11	WG1722789	5

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		0.000497	0.00106	1	08/12/2021 21:52	<u>WG1722516</u>
Toluene	U		0.00138	0.00532	1	08/12/2021 21:52	<u>WG1722516</u>
Ethylbenzene	U		0.000784	0.00266	1	08/12/2021 21:52	WG1722516
Total Xylenes	U		0.000936	0.00691	1	08/12/2021 21:52	<u>WG1722516</u>
(S) Toluene-d8	99.1			75.0-131		08/12/2021 21:52	WG1722516
(S) 4-Bromofluorobenzene	80.4			67.0-138		08/12/2021 21:52	<u>WG1722516</u>
(S) 1,2-Dichloroethane-d4	92.9			70.0-130		08/12/2021 21:52	WG1722516

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.66	4.13	1	08/20/2021 17:09	<u>WG1725447</u>
C28-C36 Motor Oil Range	1.37	Ţ	0.283	4.13	1	08/20/2021 17:09	<u>WG1725447</u>
(S) o-Terphenyl	68.8			18.0-148		08/20/2021 17:09	WG1725447

SDG: L1389289

Refeired by gGD: 2/7/2022 10:46:30 PM Collected date/time: 08/09/21 09:15

SAMPLE RESULTS - 04 L1389289

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	81.7		1	08/18/2021 06:49	WG1723778	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
Chloride	U		11.3	24.5	1	08/13/2021 03:37	WG1722198	

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

	Result (dry)	Qualifior	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
	Result (ury)	Qualifier	WDL (ury)	KDL (ury)	Dilution	Allalysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0536	<u>B J</u>	0.0266	0.122	1	08/14/2021 16:35	<u>WG1722789</u>	L
(S) a,a,a-Trifluorotoluene(FID)	98.4			77.0-120		08/14/2021 16:35	WG1722789	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		0.000677	0.00145	1	08/12/2021 22:12	WG1722516
Toluene	U		0.00189	0.00725	1	08/12/2021 22:12	WG1722516
Ethylbenzene	U		0.00107	0.00363	1	08/12/2021 22:12	WG1722516
Total Xylenes	U		0.00128	0.00943	1	08/12/2021 22:12	WG1722516
(S) Toluene-d8	111			75.0-131		08/12/2021 22:12	WG1722516
(S) 4-Bromofluorobenzene	94.6			67.0-138		08/12/2021 22:12	WG1722516
(S) 1,2-Dichloroethane-d4	97.9			70.0-130		08/12/2021 22:12	WG1722516

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.97	4.90	1	08/20/2021 16:56	WG1725447
C28-C36 Motor Oil Range	0.717	Ţ	0.335	4.90	1	08/20/2021 16:56	WG1725447
(S) o-Terphenyl	64.2			18.0-148		08/20/2021 16:56	WG1725447

SDG: L1389289

DATE/TIME: 08/25/21 13:34 ³Ss ⁴Cn

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Recreired by OCD: 2/7/2022 10:46:30 PM Collected date/time: 08/09/21 09:30

SAMPLE RESULTS - 05 L1389289

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Total Solids by Method 2540 G-2011

	Result	Qualifier Dilution	Analysis	Batch	 Ср
Analyte	%		date / time		2
Total Solids	81.1	1	08/18/2021 06:49	WG1723778	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		11.3	24.7	1	08/13/2021 03:46	WG1722198	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
	Result (dry)	Qualifier	WDE (ury)	KDL (ury)	Dilution	,	Baten	e	6
Analyte	mg/kg		mg/kg	mg/kg		date / time			QC
TPH (GC/FID) Low Fraction	0.0645	<u>B J</u>	0.0268	0.123	1	08/14/2021 16:59	WG1722789	L	
(S) a,a,a-Trifluorotoluene(FID)	99.0			77.0-120		08/14/2021 16:59	WG1722789	7	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		0.000686	0.00147	1	08/12/2021 22:30	<u>WG1722516</u>
Toluene	U		0.00191	0.00734	1	08/12/2021 22:30	<u>WG1722516</u>
Ethylbenzene	U		0.00108	0.00367	1	08/12/2021 22:30	WG1722516
Total Xylenes	U		0.00129	0.00954	1	08/12/2021 22:30	<u>WG1722516</u>
(S) Toluene-d8	109			75.0-131		08/12/2021 22:30	WG1722516
(S) 4-Bromofluorobenzene	93.1			67.0-138		08/12/2021 22:30	<u>WG1722516</u>
(S) 1,2-Dichloroethane-d4	100			70.0-130		08/12/2021 22:30	WG1722516

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.99	4.93	1	08/20/2021 17:23	WG1725447
C28-C36 Motor Oil Range	3.71	Ţ	0.338	4.93	1	08/20/2021 17:23	WG1725447
(S) o-Terphenyl	64.4			18.0-148		08/20/2021 17:23	WG1725447

SDG: L1389289

Received by 99D: 2/7/2022 10:46:30 PM Collected date/time: 08/09/21 09:45

SAMPLE RESULTS - 06

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	81.1		1	08/18/2021 06:49	WG1723778	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		11.3	24.7	1	08/13/2021 03:56	WG1722198	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
	Result (ury)	Qualifier	MDL (ury)	KDL (ury)	Dilution	,	Baten	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0555	<u>B J</u>	0.0268	0.123	1	08/14/2021 17:22	WG1722789	
(S) a,a,a-Trifluorotoluene(FID)	98.6			77.0-120		08/14/2021 17:22	WG1722789	

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		0.000685	0.00147	1	08/12/2021 22:49	WG1722516
Toluene	U		0.00191	0.00733	1	08/12/2021 22:49	WG1722516
Ethylbenzene	U		0.00108	0.00367	1	08/12/2021 22:49	WG1722516
Total Xylenes	U		0.00129	0.00953	1	08/12/2021 22:49	<u>WG1722516</u>
(S) Toluene-d8	105			75.0-131		08/12/2021 22:49	WG1722516
(S) 4-Bromofluorobenzene	88.0			67.0-138		08/12/2021 22:49	<u>WG1722516</u>
(S) 1,2-Dichloroethane-d4	109			70.0-130		08/12/2021 22:49	WG1722516

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.34	J	1.99	4.93	1	08/20/2021 17:36	WG1725447
C28-C36 Motor Oil Range	3.81	Ţ	0.338	4.93	1	08/20/2021 17:36	WG1725447
(S) o-Terphenyl	60.9			18.0-148		08/20/2021 17:36	WG1725447

SDG: L1389289 DA⁻ 08/2 Recreived by OCD: 2/7/2022 10:46:30 PM Collected date/time: 08/09/21 10:00

SAMPLE RESULTS - 07 L1389289

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%	duamer	Blittion	date / time		2
Total Solids	81.7		1	08/18/2021 06:49	WG1723778	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		11.3	24.5	1	08/13/2021 04:05	WG1722198	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Patch	
	Result (uly)	Qualifier	MDL (ury)	KDL (ury)	Dilution	Alldiysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		Q
TPH (GC/FID) Low Fraction	0.0850	<u>B J</u>	0.0266	0.122	1	08/14/2021 17:46	WG1722789	
(S) a,a,a-Trifluorotoluene(FID)	98.6			77.0-120		08/14/2021 17:46	WG1722789	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		0.000676	0.00145	1	08/12/2021 23:08	WG1722516
Foluene	U		0.00188	0.00724	1	08/12/2021 23:08	WG1722516
Ethylbenzene	U		0.00107	0.00362	1	08/12/2021 23:08	WG1722516
otal Xylenes	U		0.00127	0.00941	1	08/12/2021 23:08	WG1722516
(S) Toluene-d8	108			75.0-131		08/12/2021 23:08	WG1722516
(S) 4-Bromofluorobenzene	84.5			67.0-138		08/12/2021 23:08	WG1722516
(S) 1,2-Dichloroethane-d4	105			70.0-130		08/12/2021 23:08	WG1722516

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.97	4.89	1	08/20/2021 17:49	WG1725447
C28-C36 Motor Oil Range	3.74	Ţ	0.335	4.89	1	08/20/2021 17:49	<u>WG1725447</u>
(S) o-Terphenyl	55.4			18.0-148		08/20/2021 17:49	WG1725447

SDG: L1389289

Recreived by 99D: 2/7/2022 10:46:30 PM Collected date/time: 08/09/21 10:15

SAMPLE RESULTS - 08

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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	08/18/2021 06:49	WG1723778	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	08/13/2021 04:43	WG1722198

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Patch	
	Result (ury)	Qualifier	MDL (ury)	KDL (uly)	Dilution	Allalysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0547	<u>B J</u>	0.0232	0.107	1	08/14/2021 18:09	WG1722789	L
(S) a,a,a-Trifluorotoluene(FID)	98.6			77.0-120		08/14/2021 18:09	WG1722789	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		0.000533	0.00114	1	08/12/2021 23:27	<u>WG1722516</u>
Toluene	U		0.00148	0.00571	1	08/12/2021 23:27	<u>WG1722516</u>
Ethylbenzene	U		0.000841	0.00285	1	08/12/2021 23:27	WG1722516
Total Xylenes	U		0.00100	0.00742	1	08/12/2021 23:27	<u>WG1722516</u>
(S) Toluene-d8	109			75.0-131		08/12/2021 23:27	WG1722516
(S) 4-Bromofluorobenzene	86.6			67.0-138		08/12/2021 23:27	<u>WG1722516</u>
(S) 1,2-Dichloroethane-d4	107			70.0-130		08/12/2021 23:27	WG1722516

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.77	J	1.72	4.28	1	08/20/2021 18:02	WG1725447
C28-C36 Motor Oil Range	5.04		0.293	4.28	1	08/20/2021 18:02	WG1725447
(S) o-Terphenyl	74.9			18.0-148		08/20/2021 18:02	WG1725447

Recremed (b)_OCD: 2/7/2022 10:46:30 PM Collected date/time: 08/09/21 10:30

SAMPLE RESULTS - 09

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Total Solids by Method 2540 G-2011

	Decult	Qualifier	Dilution	Analycic	Patch		Ср
Analista	Result	Qualifier	Dilution	Analysis	Batch	L	
Analyte	% 02.7			date / time		2_	
Total Solids	82./		1	08/18/2021 06:49	WG1723778	11	I 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		11.1	24.2	1	08/13/2021 04:53	WG1722198	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Patch	
	Result (uly)	Qualifier	MDL (ury)	KDL (uly)	Dilution	Alldiysis	Batch	E
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0600	<u>B J</u>	0.0263	0.121	1	08/14/2021 18:33	WG1722789	L
(S) a,a,a-Trifluorotoluene(FID)	99.0			77.0-120		08/14/2021 18:33	WG1722789	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		0.000664	0.00142	1	08/12/2021 23:46	<u>WG1722516</u>
Toluene	U		0.00185	0.00711	1	08/12/2021 23:46	<u>WG1722516</u>
Ethylbenzene	U		0.00105	0.00355	1	08/12/2021 23:46	<u>WG1722516</u>
Total Xylenes	U		0.00125	0.00924	1	08/12/2021 23:46	<u>WG1722516</u>
(S) Toluene-d8	108			75.0-131		08/12/2021 23:46	<u>WG1722516</u>
(S) 4-Bromofluorobenzene	88.9			67.0-138		08/12/2021 23:46	<u>WG1722516</u>
(S) 1,2-Dichloroethane-d4	99.6			70.0-130		08/12/2021 23:46	WG1722516

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	5.03		1.95	4.84	1	08/20/2021 18:15	WG1725447
C28-C36 Motor Oil Range	7.20		0.332	4.84	1	08/20/2021 18:15	WG1725447
(S) o-Terphenyl	62.0			18.0-148		08/20/2021 18:15	WG1725447

SDG: L1389289

Received (by-99): 2/7/2022 10:46:30 PM Collected date/time: 08/09/21 10:45

SAMPLE RESULTS - 10

Page 69 of 142

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	93.3		1	08/18/2021 06:49	WG1723778	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		9.86	21.4	1	08/13/2021 05:02	WG1722198

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

	Result (dry)	Qualifior	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
	Result (uly)	Qualifier	MDL (ury)	RDL (ury)	Dilution	Allalysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0587	<u>B J</u>	0.0233	0.107	1	08/14/2021 18:56	WG1722789	
(S) a,a,a-Trifluorotoluene(FID)	99.3			77.0-120		08/14/2021 18:56	WG1722789	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		0.000535	0.00114	1	08/13/2021 00:05	<u>WG1722516</u>
Toluene	U		0.00149	0.00572	1	08/13/2021 00:05	<u>WG1722516</u>
Ethylbenzene	U		0.000844	0.00286	1	08/13/2021 00:05	<u>WG1722516</u>
Total Xylenes	U		0.00101	0.00744	1	08/13/2021 00:05	<u>WG1722516</u>
(S) Toluene-d8	108			75.0-131		08/13/2021 00:05	<u>WG1722516</u>
(S) 4-Bromofluorobenzene	85.6			67.0-138		08/13/2021 00:05	<u>WG1722516</u>
(S) 1,2-Dichloroethane-d4	110			70.0-130		08/13/2021 00:05	WG1722516

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	31.8		1.73	4.29	1	08/20/2021 18:28	WG1725447
C28-C36 Motor Oil Range	39.1		0.294	4.29	1	08/20/2021 18:28	<u>WG1725447</u>
(S) o-Terphenyl	63.1			18.0-148		08/20/2021 18:28	WG1725447

Recreived by OCD: 2/7/2022 10:46:30 PM Collected date/time: 08/09/21 11:00

SAMPLE RESULTS - 11 L1389289

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	95.8		1	08/18/2021 06:49	WG1723778	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	25.4		9.61	20.9	1	08/13/2021 05:12	WG1722198

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
	Result (ury)	Quanner	WDE (ury)	KDL (ury)	Diution	,	Baten		6
Analyte	mg/kg		mg/kg	mg/kg		date / time			Q
TPH (GC/FID) Low Fraction	0.0561	<u>B J</u>	0.0227	0.104	1	08/14/2021 19:19	WG1722789	L	
(S) a,a,a-Trifluorotoluene(FID)	96.3			77.0-120		08/14/2021 19:19	WG1722789		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		0.000508	0.00109	1	08/13/2021 00:24	WG1722516
Toluene	U		0.00142	0.00544	1	08/13/2021 00:24	WG1722516
Ethylbenzene	U		0.000802	0.00272	1	08/13/2021 00:24	WG1722516
Total Xylenes	U		0.000958	0.00708	1	08/13/2021 00:24	WG1722516
(S) Toluene-d8	111			75.0-131		08/13/2021 00:24	WG1722516
(S) 4-Bromofluorobenzene	81.4			67.0-138		08/13/2021 00:24	WG1722516
(S) 1,2-Dichloroethane-d4	103			70.0-130		08/13/2021 00:24	WG1722516

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	96.4		16.8	41.8	10	08/20/2021 19:21	WG1725447
C28-C36 Motor Oil Range	219		2.86	41.8	10	08/20/2021 19:21	<u>WG1725447</u>
(S) o-Terphenyl	83.2			18.0-148		08/20/2021 19:21	WG1725447

SDG: L1389289

SAMPLE RESULTS - 12 L1389289

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	90.9		1	08/18/2021 06:42	WG1723779	Tc

Wet Chemistry by Method 300.0

Wet Chemistr	ry 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		4 Cn
Chloride	U		10.1	22.0	1	08/13/2021 05:21	WG1722198	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
	Result (dry)	Qualifier	WDE (ury)	KDE (dry)	Dilution	,	Baten	6	6 <u> </u>
Analyte	mg/kg		mg/kg	mg/kg		date / time			Q
TPH (GC/FID) Low Fraction	0.0522	<u>B J</u>	0.0239	0.110	1	08/14/2021 19:43	WG1722789		
(S) a,a,a-Trifluorotoluene(FID)	96.5			77.0-120		08/14/2021 19:43	<u>WG1722789</u>		⁷ Gl

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000561	0.00120	1	08/13/2021 00:43	WG1722516
Toluene	U		0.00156	0.00600	1	08/13/2021 00:43	WG1722516
Ethylbenzene	U		0.000885	0.00300	1	08/13/2021 00:43	WG1722516
Total Xylenes	U		0.00106	0.00781	1	08/13/2021 00:43	WG1722516
(S) Toluene-d8	110			75.0-131		08/13/2021 00:43	WG1722516
(S) 4-Bromofluorobenzene	88.8			67.0-138		08/13/2021 00:43	WG1722516
(S) 1,2-Dichloroethane-d4	104			70.0-130		08/13/2021 00:43	WG1722516

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	645		17.7	44.0	10	08/20/2021 19:34	<u>WG1725447</u>
C28-C36 Motor Oil Range	1110		3.01	44.0	10	08/20/2021 19:34	<u>WG1725447</u>
(S) o-Terphenyl	94.8			18.0-148		08/20/2021 19:34	WG1725447

SDG: L1389289

Received by OCD: 2/7/2022 10:46:30 PM Collected date/time: 08/09/21 11:30

SAMPLE RESULTS - 13 L1389289

Page 72 of 142

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	81.1		1	08/18/2021 06:42	WG1723779	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	U		11.3	24.7	1	08/13/2021 05:31	WG1722198	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Patch	
	Result (uly)	Qualifier	MDL (ury)	KDL (uly)	Dilution	Allalysis	Batch	e
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0687	<u>B J</u>	0.0268	0.123	1	08/14/2021 20:06	WG1722789	L
(S) a,a,a-Trifluorotoluene(FID)	98.5			77.0-120		08/14/2021 20:06	WG1722789	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		0.000686	0.00147	1	08/13/2021 01:02	WG1722516
Toluene	U		0.00191	0.00735	1	08/13/2021 01:02	<u>WG1722516</u>
Ethylbenzene	U		0.00108	0.00367	1	08/13/2021 01:02	<u>WG1722516</u>
Total Xylenes	U		0.00129	0.00955	1	08/13/2021 01:02	<u>WG1722516</u>
(S) Toluene-d8	103			75.0-131		08/13/2021 01:02	<u>WG1722516</u>
(S) 4-Bromofluorobenzene	95.0			67.0-138		08/13/2021 01:02	<u>WG1722516</u>
(S) 1,2-Dichloroethane-d4	107			70.0-130		08/13/2021 01:02	WG1722516

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	5.83		1.99	4.93	1	08/20/2021 18:55	WG1725447
C28-C36 Motor Oil Range	20.2		0.338	4.93	1	08/20/2021 18:55	WG1725447
(S) o-Terphenyl	66.7			18.0-148		08/20/2021 18:55	WG1725447

SDG: L1389289

SAMPLE RESULTS - 14

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	98.3		1	08/18/2021 06:42	WG1723779	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		9.36	20.3	1	08/13/2021 05:40	WG1722198

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
	Result (ury)	Quanner	WDE (ury)	KDE (dry)	Diution	,	Baten	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		QC
TPH (GC/FID) Low Fraction	0.0502	<u>B J</u>	0.0221	0.102	1	08/14/2021 20:30	WG1722789	
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		08/14/2021 20:30	<u>WG1722789</u>	⁷ Gl

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000483	0.00103	1	08/13/2021 01:22	<u>WG1722516</u>
Toluene	U		0.00134	0.00517	1	08/13/2021 01:22	<u>WG1722516</u>
Ethylbenzene	U		0.000762	0.00259	1	08/13/2021 01:22	<u>WG1722516</u>
Total Xylenes	U		0.000910	0.00672	1	08/13/2021 01:22	<u>WG1722516</u>
(S) Toluene-d8	108			75.0-131		08/13/2021 01:22	<u>WG1722516</u>
(S) 4-Bromofluorobenzene	87.5			67.0-138		08/13/2021 01:22	<u>WG1722516</u>
(S) 1,2-Dichloroethane-d4	97.4			70.0-130		08/13/2021 01:22	WG1722516

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	265		65.5	163	40	08/23/2021 02:16	WG1725448
C28-C36 Motor Oil Range	511		11.2	163	40	08/23/2021 02:16	WG1725448
(S) o-Terphenyl	0.000	<u>J7</u>		18.0-148		08/23/2021 02:16	WG1725448

SDG: L1389289

SAMPLE RESULTS - 15 L1389289

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	82.0		1	08/18/2021 06:42	<u>WG1723779</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	U		11.2	24.4	1	08/13/2021 05:50	WG1722198	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Patch	
	Result (uly)	Qualifier	WDL (ury)	RDL (ury)	Dilution	Allalysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0626	<u>B J</u>	0.0265	0.122	1	08/14/2021 20:53	WG1722789	L
(S) a,a,a-Trifluorotoluene(FID)	99.2			77.0-120		08/14/2021 20:53	WG1722789	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		0.000673	0.00144	1	08/13/2021 01:41	<u>WG1722516</u>
Toluene	U		0.00187	0.00721	1	08/13/2021 01:41	WG1722516
Ethylbenzene	U		0.00106	0.00360	1	08/13/2021 01:41	WG1722516
Total Xylenes	U		0.00127	0.00937	1	08/13/2021 01:41	<u>WG1722516</u>
(S) Toluene-d8	113			75.0-131		08/13/2021 01:41	WG1722516
(S) 4-Bromofluorobenzene	86.3			67.0-138		08/13/2021 01:41	<u>WG1722516</u>
(S) 1,2-Dichloroethane-d4	111			70.0-130		08/13/2021 01:41	WG1722516

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.96	4.88	1	08/23/2021 01:49	WG1725448
C28-C36 Motor Oil Range	3.66	J	0.334	4.88	1	08/23/2021 01:49	WG1725448
(S) o-Terphenyl	64.5			18.0-148		08/23/2021 01:49	WG1725448

SDG: L1389289

DATE/TIME: 08/25/21 13:34

PAGE: 22 of 41 Received by 99D: 2/7/2022 10:46:30 PM Collected date/time: 08/09/21 12:15

SAMPLE RESULTS - 16

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	81.1		1	08/18/2021 06:42	<u>WG1723779</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	U		11.3	24.7	1	08/13/2021 06:00	WG1722198	

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	0.0584	ВJ	0.0268	0.123	1	08/14/2021 21:17	WG1722789	
(S) a,a,a-Trifluorotoluene(FID)	97.8			77.0-120		08/14/2021 21:17	<u>WG1722789</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		0.000685	0.00147	1	08/13/2021 02:00	WG1722516
Toluene	U		0.00191	0.00733	1	08/13/2021 02:00	<u>WG1722516</u>
Ethylbenzene	U		0.00108	0.00367	1	08/13/2021 02:00	<u>WG1722516</u>
Total Xylenes	U		0.00129	0.00953	1	08/13/2021 02:00	<u>WG1722516</u>
(S) Toluene-d8	120			75.0-131		08/13/2021 02:00	WG1722516
(S) 4-Bromofluorobenzene	87.3			67.0-138		08/13/2021 02:00	<u>WG1722516</u>
(S) 1,2-Dichloroethane-d4	93.3			70.0-130		08/13/2021 02:00	WG1722516

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	56.5		9.92	24.7	5	08/23/2021 02:29	WG1725448
C28-C36 Motor Oil Range	127		1.69	24.7	5	08/23/2021 02:29	WG1725448
(S) o-Terphenyl	61.1			18.0-148		08/23/2021 02:29	WG1725448

SDG: L1389289

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SAMPLE RESULTS - 17

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	97.1		1	08/18/2021 06:42	<u>WG1723779</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	U		9.48	20.6	1	08/13/2021 06:09	WG1722198

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	U		0.0223	0.103	1	08/14/2021 06:19	WG1722977	
(S) a,a,a-Trifluorotoluene(FID)	106			77.0-120		08/14/2021 06:19	WG1722977	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000495	0.00106	1	08/13/2021 02:19	WG1722516
Toluene	U		0.00138	0.00530	1	08/13/2021 02:19	WG1722516
Ethylbenzene	U		0.000781	0.00265	1	08/13/2021 02:19	WG1722516
Total Xylenes	U		0.000933	0.00689	1	08/13/2021 02:19	WG1722516
(S) Toluene-d8	107			75.0-131		08/13/2021 02:19	WG1722516
(S) 4-Bromofluorobenzene	85.8			67.0-138		08/13/2021 02:19	WG1722516
(S) 1,2-Dichloroethane-d4	109			70.0-130		08/13/2021 02:19	WG1722516

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	309		66.3	165	40	08/21/2021 21:17	WG1725448
C28-C36 Motor Oil Range	832		11.3	165	40	08/21/2021 21:17	<u>WG1725448</u>
(S) o-Terphenyl	0.000	<u>J7</u>		18.0-148		08/21/2021 21:17	WG1725448

SDG: L1389289

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SAMPLE RESULTS - 18

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Total Solids by Method 2540 G-2011

	 Result	Qualifier	Dilution	Analysis	Batch	-	Ср
Analyte	%			date / time		Ē	2
Total Solids	83.5		1	08/18/2021 06:42	<u>WG1723779</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	U		11.0	24.0	1	08/13/2021 07:06	WG1722198	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
		Quanner			Dilution	,	Daten	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		 Q
TPH (GC/FID) Low Fraction	U		0.0260	0.120	1	08/14/2021 08:14	WG1722977	
(S) a,a,a-Trifluorotoluene(FID)	109			77.0-120		08/14/2021 08:14	WG1722977	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		0.000652	0.00140	1	08/13/2021 02:38	WG1722516
Toluene	U		0.00182	0.00698	1	08/13/2021 02:38	WG1722516
Ethylbenzene	U		0.00103	0.00349	1	08/13/2021 02:38	WG1722516
Total Xylenes	U		0.00123	0.00908	1	08/13/2021 02:38	WG1722516
(S) Toluene-d8	115			75.0-131		08/13/2021 02:38	WG1722516
(S) 4-Bromofluorobenzene	85.9			67.0-138		08/13/2021 02:38	WG1722516
(S) 1,2-Dichloroethane-d4	103			70.0-130		08/13/2021 02:38	WG1722516

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	8.32		1.93	4.79	1	08/21/2021 18:53	WG1725448
C28-C36 Motor Oil Range	24.1		0.328	4.79	1	08/21/2021 18:53	<u>WG1725448</u>
(S) o-Terphenyl	65.2			18.0-148		08/21/2021 18:53	WG1725448

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SAMPLE RESULTS - 19

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	83.6		1	08/18/2021 06:42	WG1723779	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		11.0	23.9	1	08/13/2021 07:16	WG1722198	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
		Quaimer			Dilution	,	Daten		6
Analyte	mg/kg		mg/kg	mg/kg		date / time			Q
TPH (GC/FID) Low Fraction	U		0.0260	0.120	1	08/14/2021 08:35	WG1722977	L	
(S) a,a,a-Trifluorotoluene(FID)	109			77.0-120		08/14/2021 08:35	<u>WG1722977</u>		⁷ G

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		0.000652	0.00140	1	08/13/2021 02:57	WG1722516
Toluene	U		0.00181	0.00698	1	08/13/2021 02:57	WG1722516
Ethylbenzene	U		0.00103	0.00349	1	08/13/2021 02:57	WG1722516
Total Xylenes	U		0.00123	0.00907	1	08/13/2021 02:57	WG1722516
(S) Toluene-d8	108			75.0-131		08/13/2021 02:57	WG1722516
(S) 4-Bromofluorobenzene	86.4			67.0-138		08/13/2021 02:57	WG1722516
(S) 1,2-Dichloroethane-d4	109			70.0-130		08/13/2021 02:57	WG1722516

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	5.86		1.93	4.79	1	08/23/2021 02:03	WG1725448
C28-C36 Motor Oil Range	12.6		0.328	4.79	1	08/23/2021 02:03	WG1725448
(S) o-Terphenyl	57.9			18.0-148		08/23/2021 02:03	WG1725448

SDG: L1389289

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SAMPLE RESULTS - 20

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	99.2		1	08/18/2021 06:42	WG1723779	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		9.27	20.2	1	08/13/2021 07:25	WG1722198	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
		Quaimer			Dilution	,	Daten	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		Q
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	08/14/2021 08:57	WG1722977	
(S) a,a,a-Trifluorotoluene(FID)	108			77.0-120		08/14/2021 08:57	<u>WG1722977</u>	⁷ Gl

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000474	0.00102	1	08/13/2021 03:16	<u>WG1722516</u>
Toluene	U		0.00132	0.00508	1	08/13/2021 03:16	<u>WG1722516</u>
Ethylbenzene	U		0.000748	0.00254	1	08/13/2021 03:16	WG1722516
Total Xylenes	U		0.000894	0.00660	1	08/13/2021 03:16	<u>WG1722516</u>
(S) Toluene-d8	108			75.0-131		08/13/2021 03:16	WG1722516
(S) 4-Bromofluorobenzene	84.6			67.0-138		08/13/2021 03:16	<u>WG1722516</u>
(S) 1,2-Dichloroethane-d4	103			70.0-130		08/13/2021 03:16	WG1722516

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	146		16.2	40.3	10	08/23/2021 02:42	WG1725448
C28-C36 Motor Oil Range	362		2.76	40.3	10	08/23/2021 02:42	WG1725448
(S) o-Terphenyl	92.7			18.0-148		08/23/2021 02:42	WG1725448

SDG: L1389289 DATE/TIME: 08/25/21 13:34

PAGE: 27 of 41

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Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY L1389289-01

Page 80 of 142

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Method Blank (MB)

Method Blank	(IVIB)				1
(MB) R3693203-1 C	08/17/21 11:06				
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	%		%	%	Tc
Total Solids	0.00200				
					³ Ss

L1389285-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1389285-23 OR/	<u> </u>	· · ·	1	× 7		
(00) 21000200 20 00,.	Original Result				DUP Qualifier	DUP RPD Limits
Analyte Total Solids	%	% 75.0		%		<u>%</u> <u>10</u>
	75.0	75.0	I	0.754		10

Laboratory Control Sample (LCS)

(LCS) R3693203-2 08/17	7/21 11:06				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

SDG: L1389289

DATE/TIME: 08/25/21 13:34

PAGE: 28 of 41

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Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY L1389289-02,03,04,05,06,07,08,09,10,11

Page 81 of 142

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Method Blank (MB)

Method Blank	(IVIB)					
(MB) R3693505-1 C	8/18/21 06:49					
	MB Result	MB Qualifier	MB MDL	MB RDL		
Analyte	%		%	%		
Total Solids	0.00200					

L1389289-05 Original Sample (OS) • Duplicate (DUP)

Laboratory Control Sample (LCS)

(LCS) R3693505-2 08	8/18/21 06:49				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

SDG: L1389289

DATE/TIME: 08/25/21 13:34

PAGE: 29 of 41

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Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY L1389289-12,13,14,15,16,17,18,19,20

Page 82 of 142

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Method Blank (MB)

Method Blank	< (MB)				
(MB) R3693500-1	08/18/21 06:42				Ср
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	%		%	%	Тс
Total Solids	0.00100				
					³ Ss

L1389289-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1389289-16 Orig							⁴ Cn
Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	⁵ Sr
Total Solids	81.1	82.1	1	1.16		10	⁶ Qc

Laboratory Control Sample (LCS)

(LCS) R3693500-2 08/1	8/21 06:42				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

SDG: L1389289

DATE/TIME: 08/25/21 13:34

PAGE: 30 of 41

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Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY L1389289-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20

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	-)				1 Cp
(MB) R3692018-1 08/13/	21 02:49				. Cp
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/kg		mg/kg	mg/kg	⁻Tc
Chloride	U		9.20	20.0	

L1389289-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1389289-07 08/1	13/21 04:05 • (DUP) R3692018-3	8 08/13/21	04:15		
	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

L1389289-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1389289-17 08/13/21 06:09 • (DUP) R3692018-4 08/13/21 06:38 Original Result DUP Result Dilution DUP RPD <u>DUP Qualifier</u> DUP RPD (drv) (drv)										
	(OS) L1389289-17 08/13/2	21 06:09 • (DUP)	R3692018-4	08/13/21 0	06:38					
		Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits			
Analyte mg/kg mg/kg % %	Analyte	mg/kg	mg/kg		%		%			
Chloride U U 1 0.000 20	Chloride	U	U	1	0.000		20			

Laboratory Control Sample (LCS)

(LCS) R3692018-2 08/13/	/21 02:59				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifie
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	200	100	90.0-110	

L1389289-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1389289-17 08/13/2	106:09 • (MS) F	R3692018-5 0	8/13/21 06:47 •	(MSD) R36920	18-6 08/13/21	06:57						
	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	515	U	510	514	99.1	99.8	1	80.0-120			0.775	20

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PROJECT: 212C-MD-02506

SDG: L1389289 DATE/TIME: 08/25/21 13:34

PAGE:

31 of 41

Page 83 of 142

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

QUALITY CONTROL SUMMARY L1389289-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16

Page 84 of 142

Method Blank (MB)

	/				
MB) R3694107-3 08/14/2	1 12:52				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
TPH (GC/FID) Low Fraction	0.0378	J	0.0217	0.100	
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120	

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

(LCS) R3694107-1 08/14/2	21 11:41 • (LCSD)	R3694107-2 (08/14/21 12:05								
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%	
TPH (GC/FID) Low Fraction	5.50	5.94	6.08	108	111	72.0-127			2.33	20	
(S) a.a.a-Trifluorotoluene(FID)				111	111	77.0-120					

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

QUALITY CONTROL SUMMARY

Page 85 of 142

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Method Blank (MB)

)				
21 00:14				
MB Result	MB Qualifier	MB MDL	MB RDL	
mg/kg		mg/kg	mg/kg	
U		0.0217	0.100	
114			77.0-120	
	21 OO:14 MB Result mg/kg U	1 OO:14 MB Result <u>MB Qualifier</u> mg/kg U	11 OO:14 MB Result MB Qualifier MB MDL mg/kg mg/kg U 0.0217	MB Result MB Qualifier MB MDL MB RDL mg/kg mg/kg mg/kg U 0.0217 0.100

Laboratory Control Sample (LCS)

(LCS) R3692763-1 08/13/	21 23:31				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	6.29	114	72.0-127	
(S) a.a.a-Trifluorotoluene(FID)			103	77.0-120	

L1389092-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1389092-01 08/14/2	21 02:23 • (MS)	R3692763-3 0	8/14/21 09:39 •	(MSD) R3692	763-4 08/14/2	1 10:01						
	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	165	U	155	160	94.2	97.1	25	10.0-151			3.03	28
(S) a,a,a-Trifluorotoluene(FID)					106	107		77.0-120				

SDG: L1389289 DATE/TIME: 08/25/21 13:34

PAGE: 33 of 41

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

QUALITY CONTROL SUMMARY L1389289-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20

Method Blank (MB)

(MB) R3694429-2 08/12/2	21 19:55				
	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	86.8			75.0-131	
(S) 4-Bromofluorobenzene	86.7			67.0-138	
(S) 1,2-Dichloroethane-d4	96.3			70.0-130	

Laboratory Control Sample (LCS)

(LCS) R3694429-1 08/12/	21 18:58				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Benzene	0.125	0.109	87.2	70.0-123	
Ethylbenzene	0.125	0.108	86.4	74.0-126	
Toluene	0.125	0.114	91.2	75.0-121	
Xylenes, Total	0.375	0.340	90.7	72.0-127	
(S) Toluene-d8			106	75.0-131	
(S) 4-Bromofluorobenzene			89.9	67.0-138	
(S) 1,2-Dichloroethane-d4			109	70.0-130	

L1389289-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1389289-01 08/12/2	1 21:14 • (MS) R3	3694429-3 08	/13/21 03:35 • (MSD) R369442	29-4 08/13/21 0	03:54						
	Spike Amount (dry)	Original 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	0.174	U	0.181	0.171	104	98.4	1	10.0-149			5.58	37
Ethylbenzene	0.174	U	0.184	0.181	106	104	1	10.0-160			1.54	38
Toluene	0.174	U	0.176	0.188	101	108	1	10.0-156			6.95	38
Xylenes, Total	0.523	U	0.573	0.551	110	105	1	10.0-160			4.00	38
(S) Toluene-d8					95.7	103		75.0-131				
(S) 4-Bromofluorobenzene					89.8	84.9		67.0-138				
(S) 1,2-Dichloroethane-d4					104	115		70.0-130				

DATE/TIME: 08/25/21 13:34 PAGE: 34 of 41

Page 86 of 142

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

QUALITY CONTROL SUMMARY

Page 87 of 142

Method Blank (MB)

MB) R3694950-1 08/22/	/21 06:45				
	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-C36 Motor Oil Range	U		0.274	4.00	
(S) o-Terphenyl	59.6			18.0-148	

Laboratory Control Sample (LCS)

(LCS) R3694950-2 08/2	22/21 06:59				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	32.7	65.4	50.0-150	
(S) o-Terphenyl			44.6	18.0-148	

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DATE/TIME: 08/25/21 13:34

PAGE: 35 of 41 Semi-Volatile Organic Compounds (GC) by Method 8015M

QUALITY CONTROL SUMMARY 1389289-03,04,05,06,07,08,09,10,11,12,13

Page 88 of 142

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Method Blank (MB)

(MB) R3694742-1 08/20/	/21 16:30				
	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-C36 Motor Oil Range	U		0.274	4.00	
(S) o-Terphenyl	72.2			18.0-148	

Laboratory Control Sample (LCS)

(LCS) R3694742-2 08/2	20/21 16:43				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	41.7	83.4	50.0-150	
(S) o-Terphenyl			70.0	18.0-148	

DATE/TIME: 08/25/2113:34

PAGE: 36 of 41

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

QUALITY CONTROL SUMMARY L1389289-14,15,16,17,18,19,20

Page 89 of 142

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Method Blank (MB)

(MB) R3694946-1 08/21/2	21 16:28				
	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-C36 Motor Oil Range	U		0.274	4.00	
(S) o-Terphenyl	68.3			18.0-148	

Laboratory Control Sample (LCS)

(LCS) R3694946-2 08/2	21/21 16:41				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	40.0	80.0	50.0-150	
(S) o-Terphenyl			65.5	18.0-148	

L1389289-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1389289-18 08/21/2	21 18:53 • (MS) R	3694946-3 0	3/21/21 19:06 • (MSD) R36949	46-4 08/21/21	19:19						
	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	58.1	8.32	57.6	53.9	84.9	79.0	1	50.0-150			6.66	20
(S) o-Terphenyl					60.4	57.6		18.0-148				

DATE/TIME: 08/25/21 13:34

PAGE: 37 of 41

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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

Appreviations and	
(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.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.

SDG: L1389289

Received by OCD: 2/7/2022 10:46:30 PM CCREDITATIONS & LOCATIONS

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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	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ¹⁴	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
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

* 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 Analytical.

PROJECT: 212C-MD-02506

SDG: L1389289 DATE/TIME: 08/25/21 13:34

PAGE: 39 of 41 Received by OCD: 2/7/2022 10:46:30 PM

Ŧ	Tetra	a Tech,	Inc.			9	M	lest W Iidland Tel (4 Fax (4	100	J196														
Client Name:	Conoco Phillip	DS		Site Manage	er:	Christ	ian Ll	lull								LAN	IALY			UES				
Project Name: SEM	n Strawn B	ettery Header	Release	Contact Info	:			stian.ll 2) 338	ull@tetrate -1667	ech.co	m	1.1			s	ampl	e Rec	eipt		klist	<u>t</u>			
Project Location: (county, state)	a county.	NM	an she t	Project #:	2120-1	ND-	.0:	250	6		C B	OC Si ottle	al Pr gned/ s arr t bot	Accu	rate inta	: ct:	:Y_ Y_ Y_			Zero	Head	icabl space Check		_и
Invoice to:	Accounts Pay 901 West Wa	vable Il Street, Suite 100 Mic	dland, Texas 797	701							S	uffic	ient reen	volu	me s mR/	ent:	Y	N N						*
Receiving Laboratory	Pace Analytic	al	1	Sampler Sig	gnature:	Ar	ndrew	/ Garc	ia				0 - MRG	Se Ho	Se Hg							attached		
Comments: COPTE	ETRA Acctnum					1						8260B	C35) DRO - ORO - MRC	Cd Cr Ph	Cd Cr			1/ 624 8270C/625			TDS	(see		
1789289				SAMF	PLING	MAT	RIX		ERVATIV	ES	î	BTEX	GRO - D	Ac Ra	As Ba	tiloo	mes	mı				E	ance	
LAB#	SAMP	LE IDENTIFICATION		YEAR	: 2021					AINER	(N/N) (8021B	005 (E M (G	An	als Ag	Volatiles			8082 / 608	(Asbestos)	00.0 Sulfate	Water Ch	015R	
(LAB USE)	U U U			DATE	TIME	WATER		HCL HNO,	ICE	# CONTAINERS	FILTERED		TPH 8015M (PAH 8270C Total Metals	TCLP Met	TCLP Volatile	RCI	GC/MS Vol. GC/MS Sem	PCB's 80	PLM (Asb	Chloride 300.0	General M	TPH 8015R	НОГР
0	AH-1	(0'-1")		8/9/21	\$30	X			X	1	N	×	X								X			
n	AH-I	(2'-3')		8/9/21	845	X			X	1	N	x	X								X			
3	AH-2	(0'-1')		8/9/21	900)	e l		X		N	X	X								x			
24	AH-2	(2'-3')		8/9/21	915	X			X	1	N	X	X								X			
05	AH-3	(0'-1')		8/9/21	930	7	e		X	1	N	X	x								X			
ot	AH-3	(2'-3')		8/9/21	945	X	-		×	1	N	X	X								X			
J	AH-4	(0'-1')		8/9/21	1000	>	e		X	1	N	X	X						\square		×			
A	AH-4	(2'-3')		8/9/21		X	_		X	1	N	X	X						\square		x	\square		
07	AH -5	(0'-1')		8/9/21		>	٢		X	1	N		X						\square		X			
10	AH-5	(2'-3')		8/9/21		X	2		×	the second s	N	X	X								×			
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Relinquished by:	0	Date:	Time:	Received by	r: A		0	Date:		Tin	ne:	Sam	ple Te	npera	ture		RU	SH: S	ame Da	ay 24	hr. 4	8 hr. 7	2 hr.	
asil		8-10-21	16:00	Na	A	(5-1	10.	21	10	do:	1.0	>f.1	-1.1	1	Г	Rus	h Cha	rges Au	uthorize	d			
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Received by OCD: 2/7/2022 10:46:30 PM Analysis Request of Chain of Custody Record

æ	Tetra	a Tech,	Inc.				901	Midla Tel	Wall Street, and, Texas 7 (432) 682-4 (432) 682-3	9701 559	00													
Client Name:	Conoco Phillip	os		Site Manage	er:	Chr	istian	Llull			1						LYSI							
Project Name:									n.llull@tetrate 338-1667	1	11	(Cir	cle	or	Spe	cify	Me	thoo 	3 No) 				
Project Location: (county, state)	NAME AND ADDRESS OF TAXABLE PARTY.		Release	Project #:	2120		MD	, - (2506															
Invoice to:	Accounts Pay 901 West Wa	able Il Street, Suite 100 Mid	dland, Texas 7970	01			9 4														ict)	ha		
Receiving Labora	atory: Pace Analytic	al		Sampler Sig	gnature:		Andre	ew Ga	arcia			1	- ORO - MRO)	Se Hg	Se Hg						(see attached list)			
Comments: C	OPTETRA Acctnum						8					3260B 5)		Cr Pb	COCK			C/625						
1220026				SAMF	LING	M/	ATRIX	PR	ESERVATIV		Î	BTEX 82 (Ext to C35)	RO - DF	3a (As ba (iles	8260B / 624	I. 8270C/ 8			e TDS			
1389279 LAB #	SAMDI			YEAR	: 2021			+		INER	(N/A) 0	L L	-	Ag /	Ag	i Volatil	. 826	ni. Vo 2 / 60		(bestos) 300.0	Sulfate	n Bala	_	
LAB #	JAMIT	LEIDENTIFICATION		DATE	TIME	WATER	SOIL	HCL	HNO ₃ ICE NONE	# CONTAINERS	FILTERED	BTEX 8021B TPH TX1005	TPH 8015M	Total Metals	CLP Volatile	CLP Semi	RCI BC/MS Vol.	GC/MS Semi. Vol. PCB's 8082 / 608	NORM	PLM (Asbe Chloride 30	Chloride Sulfate	Anion/Cation F	PH 8015F	НОГР
(1	AH-6	(0'-1')	1999 (1999) (1999) (1999) (1999) 1999))))))))))	8/9/21	1100	-	X		X	1	N	X	X					0 11	2	X		4	_	-
12	AH-6	(2'-3')		8/9/21	1115		x		X)	N	X	X							X				
13	AH-7	(0'-1')		8/9/21	1130		X		X	1	N	X	X							X				
14	AH-7	(2'-3')		8/9/21	1145		X		X	1	N	×	X							X				
15	8-HA	(0'-1')		8/9/21	1200		X		X	1	N	x	x							X		1		
14	AH-8	(2'-3')		8/9/21			X		X	1	N	X	X	\square						X		\square		
11	AH-9	(0'-1')		8/9/21	1230		X		X	1	N	X	X	\square				-		X		\square		
A	AH-9	(2'-3')		8/9/21	1245		×	-	X	1	N	X	X						\square	X		\square		
(9	AH-10	(0'-1')		8/9/21			X	-	X	1	N	X	X	\square	-	\square			\square	×		\square		
2 ² Relinquished by:	01-HA	(2'-3')	Time	8/9/21			×		X	1	N	X	X			MAF				X				
	v Garcia	Date:	Time:	Received by	Li)	8	Dat)-2(Time		100000000000000000000000000000000000000	AB U ONL				Standar	d			-			
Relinquished by	()	Date:	Time:	Received by	a series		~	Dat	te:	Time		Sample	e Temp	erature			RUSH:	Same	Day	24 hr.	48 hr.	72 hr		
Relinquished by:	4	8-10-21 Date:	16:00 Time:	Received by	7	1	8-	- 1C	2-2(16 Time	e.	1. Part 1. State	1.1=				Rush C	harges	Autho	rized				
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Pace Analytical

Page 94 of 142

	ICAL REPORT	¹ Cp
		² Tc
ConocoPhillips - Te	tra Tech	³ Ss
Sample Delivery Group:	L1415900	⁴ Cn
Samples Received:	10/09/2021	⁵ Sr
Project Number:	212C-MD-02506	
Description:	COP SEMU Strawn Battery	⁶ Qc
Site:	LEA COUNTY,NEW MEXICO	7
Report To:	Christian Llull	Í GI
	901 West Wall	⁸ AI
	Suite 100	
	Midland, TX 79701	ຶSc

Entire Report Reviewed By:

Chu, foph June

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 Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

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

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PROJECT: 212C-MD-02506

SDG: L1415900

DATE/TIME: 10/26/21 19:53

PAGE: 1 of 28

TABLE OF CONTENTS

Page	95	of	142	

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	6
Sr: Sample Results	7
AH-11 (0-1) L1415900-01	7
AH-11 (2-3) L1415900-02	8
AH-11 (4-5) L1415900-03	9
AH-11 (6-7) L1415900-04	10
AH-11 (7-8) L1415900-05	11
AH-12 (0-1) L1415900-06	12
AH-12 (2-3) L1415900-07	13
AH-13 (0-1) L1415900-08	14
AH-13 (2-3) L1415900-09	15
AH-14 (0-1) L1415900-10	16
AH-14 (2-3) L1415900-11	17
Qc: Quality Control Summary	18
Total Solids by Method 2540 G-2011	18
Wet Chemistry by Method 300.0	20
Volatile Organic Compounds (GC) by Method 8015D/GRO	21
Volatile Organic Compounds (GC/MS) by Method 8260B	23
Semi-Volatile Organic Compounds (GC) by Method 8015M	24
GI: Glossary of Terms	25
Al: Accreditations & Locations	26
Sc: Sample Chain of Custody	27

PROJECT: 212C-MD-02506

SDG: L1415900 DATE/TIME: 10/26/21 19:53

Г**IME:** 19:53 PAGE: 2 of 28 **Received by OCD: 2/7/2022 10:46:30 PM SAMPLE SLIMMARY**

Received by OCD: 2///2022 10:46:30 PM	SAMPLES	SAMPLE SUMMARY							
			Collected by	Collected date/time					
AH-11 (0-1) L1415900-01 Solid			Andrew Garcia	10/07/21 08:30	10/09/21 09:	:30			
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location			
Total Solids by Method 2540 G-2011	WG1757591	1	10/15/21 12:45	10/15/21 12:57	СМК	Mt. Juliet, TN			
Net Chemistry by Method 300.0	WG1760693	1	10/20/21 20:54	10/21/21 15:52	ELN	Mt. Juliet, TN			
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1755314	1	10/13/21 19:22	10/16/21 23:30	ACG	Mt. Juliet, TN			
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758133	1	10/13/21 19:22	10/16/21 07:33	DWR	Mt. Juliet, TN			
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1759978	40	10/20/21 05:47	10/20/21 14:42	TJD	Mt. Juliet, TN			
			Collected by	Collected date/time	Received da	ite/time			
AH-11 (2-3) L1415900-02 Solid			Andrew Garcia	10/07/21 09:00	10/09/21 09:	30			
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location			
Fotal Solids by Method 2540 G-2011	WG1757591	1	10/15/21 12:45	10/15/21 12:57	СМК	Mt. Juliet, TN			
Wet Chemistry by Method 300.0	WG1760693	1	10/13/21 12:45	10/21/21 16:01	ELN	Mt. Juliet, TN Mt. Juliet, TN			
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1755314	1	10/20/21 20:34	10/16/21 23:53	ACG	Mt. Juliet, TN			
/olatile Organic Compounds (GC/MS) by Method 80(5)/ORO	WG1758133	1	10/13/21 19:22	10/16/21 07:53	DWR	Mt. Juliet, TN			
Semi-Volatile Organic Compounds (GC) by Method 8200B	WG1759978	100	10/13/21 19:22	10/20/21 17:42	TJD	Mt. Juliet, TN			
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1759978	40	10/20/21 05:47	10/20/21 14:54	TJD	Mt. Juliet, TN Mt. Juliet, TN			
AH-11 (4-5) L1415900-03 Solid			Collected by Andrew Garcia	Collected date/time 10/07/21 09:30	Received da 10/09/21 09:				
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location			
Total Solids by Method 2540 G-2011	WG1757591	1	date/time 10/15/21 12:45	date/time 10/15/21 12:57	СМК	Mt. Juliet, TN			
Vet Chemistry by Method 300.0	WG1760693		10/15/21 12.45	10/15/21 12:57	ELN	Mt. Juliet, TN Mt. Juliet, TN			
/olatile Organic Compounds (GC) by Method 8015D/GRO	WG1755314	1	10/20/21 20.34	10/17/21 00:17	ACG	Mt. Juliet, TN Mt. Juliet, TN			
Volatile Organic Compounds (GC/MS) by Method 80150/GRO	WG1758133	1	10/13/21 19:22	10/16/21 08:14	DWR	Mt. Juliet, TN Mt. Juliet, TN			
Semi-Volatile Organic Compounds (GCMS) by Method 8200B		1 40	10/13/21 19.22	10/20/21 15:07	TJD	Mt. Juliet, TN Mt. Juliet, TN			
	WG1759978	40	10/20/21 05.47	10/20/21 15.07	IJD	Mit. Juliet, TN			
			Collected by	Collected date/time	Received da	nte/time			
AH-11 (6-7) L1415900-04 Solid			Andrew Garcia	10/07/21 10:00	10/09/21 09:	30			
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location			
Total Solids by Method 2540 G-2011	WG1757750	1	10/16/21 07:52	10/16/21 07:57	СМК	Mt. Juliet, TN			
Net Chemistry by Method 300.0	WG1760693	1	10/20/21 20:54	10/21/21 16:20	ELN	Mt. Juliet, TN			
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1755314	1	10/13/21 19:22	10/17/21 00:41	ACG	Mt. Juliet, TN			
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758133	1	10/13/21 19:22	10/16/21 08:34	DWR	Mt. Juliet, TN			
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1759978	1	10/20/21 05:47	10/20/21 12:01	TJD	Mt. Juliet, TN			
			Collected by	Collected date #ima	Deceived de	to ltime o			

AH-11 (7-8) L1415900-05 Solid			Collected by Andrew Garcia	Collected date/time 10/07/2110:30	Received dat 10/09/21 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1757750	1	10/16/21 07:52	10/16/21 07:57	СМК	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1760693	1	10/20/21 20:54	10/21/21 16:58	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1755314	1	10/13/21 19:22	10/17/21 01:05	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1758133	1	10/13/21 19:22	10/16/21 08:55	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1759978	1	10/20/21 05:47	10/20/21 13:02	TJD	Mt. Juliet, TN

PROJECT: 212C-MD-02506

SDG: L1415900

DATE/TIME: 10/26/21 19:53 PAGE: 3 of 28

Page 96 of 142

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Received by OCD: 2/7/2022 10:46:30 PM

SAMPLE SUMMARY

AH-12 (0-1) L1415900-06 Solid			Collected by Andrew Garcia	Collected date/time 10/07/21 11:00	Received da 10/09/21 09:		
<i>f</i> lethod	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Fotal Solids by Method 2540 G-2011	WG1757750	1	10/16/21 07:52	10/16/21 07:57	СМК	Mt. Juliet, TN	
Vet Chemistry by Method 300.0	WG1760693	1	10/20/21 20:54	10/21/21 17:26	ELN	Mt. Juliet, TN	
/olatile Organic Compounds (GC) by Method 8015D/GRO	WG1755314	1	10/13/21 19:22	10/17/21 01:28	ACG	Mt. Juliet, TN	
/olatile Organic Compounds (GC/MS) by Method 8260B	WG1758133	1	10/13/21 19:22	10/16/21 09:16	DWR	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1759978	1	10/20/21 05:47	10/20/21 11:48	TJD	Mt. Juliet, TN	
AH-12 (2-3) L1415900-07 Solid			Collected by Andrew Garcia	Collected date/time 10/07/21 11:30	Received da 10/09/21 09:		
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location	
vietuou	Batch	Dilution	date/time	date/time	AndiySt	LOCATION	
otal Solids by Method 2540 G-2011	WG1757750	1	10/16/21 07:52	10/16/21 07:57	СМК	Mt. Juliet, TN	
Vet Chemistry by Method 300.0	WG1760693	1	10/20/21 20:54	10/21/21 17:36	ELN	Mt. Juliet, TN	
olatile Organic Compounds (GC) by Method 8015D/GRO	WG1759217	1	10/13/21 19:22	10/20/21 03:47	ADM	Mt. Juliet, TN	
/olatile Organic Compounds (GC/MS) by Method 8260B	WG1758133	1	10/13/21 19:22	10/16/21 09:37	DWR	Mt. Juliet, TN	
emi-Volatile Organic Compounds (GC) by Method 8015M	WG1759978	1	10/20/21 05:47	10/20/21 10:46	TJD	Mt. Juliet, TN	
			Collected by	Collected date/time	Received da		
AH-13 (0-1) L1415900-08 Solid			Andrew Garcia	10/07/21 13:00	10/09/21 09:	30	
Aethod	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
otal Solids by Method 2540 G-2011	WG1757750	1	10/16/21 07:52	10/16/21 07:57	СМК	Mt. Juliet, TN	
Vet Chemistry by Method 300.0	WG1760693	1	10/20/21 20:54	10/21/21 17:46	ELN	Mt. Juliet, TN	
olatile Organic Compounds (GC) by Method 8015D/GRO	WG1759217	1	10/13/21 19:22	10/20/21 04:09	ADM	Mt. Juliet, TN	
/olatile Organic Compounds (GC/MS) by Method 8260B	WG1758133	1	10/13/21 19:22	10/16/21 09:57	DWR	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1759978	1	10/20/21 05:47	10/20/21 11:23	TJD	Mt. Juliet, TN	
			Collected by	Collected date/time	Received da	Received date/time	
AH-13 (2-3) L1415900-09 Solid			Andrew Garcia	10/07/21 13:30	10/09/21 09:	30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Fotal Solids by Method 2540 G-2011	WG1757750	1	10/16/21 07:52	10/16/21 07:57	СМК	Mt. Juliet, TN	
Vet Chemistry by Method 300.0	WG1760693	1	10/20/21 20:54	10/21/21 17:55	ELN	Mt. Juliet, TN	
/olatile Organic Compounds (GC) by Method 8015D/GRO	WG1759217	1	10/13/21 19:22	10/20/21 04:30	ADM	Mt. Juliet, TN	
/olatile Organic Compounds (GC/MS) by Method 8260B	WG1758133	1	10/13/21 19:22	10/16/21 10:18	DWR	Mt. Juliet, TN	
semi-Volatile Organic Compounds (GC) by Method 8015M	WG1759978	1	10/20/21 05:47	10/20/21 10:59	TJD	Mt. Juliet, TN	
			Collected by	Collected date/time	Received da	te/time	
AH-14 (0-1) L1415900-10 Solid			Andrew Garcia	10/07/21 14:30	10/09/21 09:		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Fotal Solids by Method 2540 G-2011	WG1757750	1	10/16/21 07:52	10/16/21 07:57	СМК	Mt. Juliet, TN	
Vet Chemistry by Method 300.0	WG1760693	1	10/20/21 20:54	10/21/21 18:05	ELN	Mt. Juliet, TN	
/olatile Organic Compounds (GC) by Method 8015D/GRO	WG1759217	1	10/13/21 19:22	10/20/21 04:52	ADM	Mt. Juliet, TN	
/olatile Organic Compounds (GC/MS) by Method 8260B	WG1758133	1	10/13/21 19:22	10/16/21 10:38	DWR	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1759978	1	10/20/21 05:47	10/20/21 12:13	TJD	Mt. Juliet, TN	

PROJECT: 212C-MD-02506

SDG: L1415900 DATE/TIME: 10/26/21 19:53 PAGE: 4 of 28

Page 97 of 142

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SAMPLE SUMMARY

Page 98 of 142

	Andrew Garcia	10/07/21 15:00	Received date/time 10/09/21 09:30	
Dilution	Preparation	Analysis	Analyst	Location
	date/time	date/time		
/50 1	10/16/21 07:52	10/16/21 07:57	СМК	Mt. Juliet, TN
693 1	10/20/21 20:54	10/21/21 18:14	ELN	Mt. Juliet, TN
217 1	10/13/21 19:22	10/20/21 05:14	ADM	Mt. Juliet, TN
133 1	10/13/21 19:22	10/16/21 10:58	DWR	Mt. Juliet, TN
978 1	10/20/21 05:47	10/20/21 11:36	TJD	Mt. Juliet, TN
	250 1 593 1 217 1 33 1	Dilution Preparation date/time 750 1 10/16/21 07:52 693 1 10/20/21 20:54 217 1 10/13/21 19:22 33 1 10/13/21 19:22	Dilution Preparation date/time Analysis date/time 750 1 10/16/21 07:52 10/16/21 07:57 693 1 10/20/21 20:54 10/21/21 18:14 217 1 10/13/21 19:22 10/20/21 05:14 33 1 10/13/21 19:22 10/16/21 10:58	Dilution Preparation date/time Analysis date/time Analysis 750 1 10/16/21 07:52 10/16/21 07:57 CMK 693 1 10/20/21 20:54 10/21/21 18:14 ELN 217 1 10/13/21 19:22 10/20/21 05:14 ADM 33 1 10/13/21 19:22 10/16/21 10:58 DWR



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Released to Imaging: 2/25/2022 10:26:59 AM ConocoPhillips - Tetra Tech

PROJECT: 212C-MD-02506

SDG: L1415900 DATE/TIME: 10/26/21 19:53

ME: 19:53 PAGE: 5 of 28

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



PROJECT: 212C-MD-02506

SDG: L1415900 DATE/TIME: 10/26/21 19:53

IME: 19:53 PAGE: 6 of 28

SAMPLE RESULTS - 01

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	99.6		1	10/15/2021 12:57	<u>WG1757591</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	U		9.23	20.1	1	10/21/2021 15:52	WG1760693

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analista		Qualifier			Dilution	,	baten		6
Analyte	mg/kg		mg/kg	mg/kg		date / time			Q
TPH (GC/FID) Low Fraction	0.451		0.0218	0.100	1	10/16/2021 23:30	WG1755314	L	
(S) a,a,a-Trifluorotoluene(FID)	93.0			77.0-120		10/16/2021 23:30	WG1755314		⁷ G

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	0.000673	J	0.000470	0.00101	1	10/16/2021 07:33	<u>WG1758133</u>
Toluene	0.0222		0.00131	0.00504	1	10/16/2021 07:33	<u>WG1758133</u>
Ethylbenzene	U		0.000742	0.00252	1	10/16/2021 07:33	<u>WG1758133</u>
Total Xylenes	0.0136		0.000886	0.00655	1	10/16/2021 07:33	<u>WG1758133</u>
(S) Toluene-d8	105			75.0-131		10/16/2021 07:33	<u>WG1758133</u>
(S) 4-Bromofluorobenzene	101			67.0-138		10/16/2021 07:33	<u>WG1758133</u>
(S) 1,2-Dichloroethane-d4	81.1			70.0-130		10/16/2021 07:33	WG1758133

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2400		64.6	161	40	10/20/2021 14:42	<u>WG1759978</u>
C28-C36 Motor Oil Range	4410		11.0	161	40	10/20/2021 14:42	<u>WG1759978</u>
(S) o-Terphenyl	0.000	<u>J7</u>		18.0-148		10/20/2021 14:42	WG1759978

Recreined by _GCD: 2/7/2022 10:46:30 PM Collected date/time: 10/07/21 09:00

SAMPLE RESULTS - 02 L1415900

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	C	Ср
Analyte	%	quanter	Blution	date / time		2	
Total Solids	90.7		1	10/15/2021 12:57	WG1757591	T	Гс

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		10.1	22.1	1	10/21/2021 16:01	WG1760693

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	2.100.011	date / time		
TPH (GC/FID) Low Fraction	0.0333	J	0.0239	0.110	1	10/16/2021 23:53	WG1755314	
(S) a,a,a-Trifluorotoluene(FID)	80.5			77.0-120		10/16/2021 23:53	WG1755314	

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		0.000563	0.00121	1	10/16/2021 07:53	WG1758133
Toluene	0.00338	Ţ	0.00157	0.00603	1	10/16/2021 07:53	<u>WG1758133</u>
Ethylbenzene	U		0.000889	0.00301	1	10/16/2021 07:53	WG1758133
Total Xylenes	U		0.00106	0.00784	1	10/16/2021 07:53	<u>WG1758133</u>
(S) Toluene-d8	108			75.0-131		10/16/2021 07:53	WG1758133
(S) 4-Bromofluorobenzene	100			67.0-138		10/16/2021 07:53	<u>WG1758133</u>
(S) 1,2-Dichloroethane-d4	80.7			70.0-130		10/16/2021 07:53	WG1758133

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4610		71.0	176	40	10/20/2021 14:54	<u>WG1759978</u>
C28-C36 Motor Oil Range	9110		30.2	441	100	10/20/2021 17:42	<u>WG1759978</u>
(S) o-Terphenyl	0.000	<u>J7</u>		18.0-148		10/20/2021 17:42	WG1759978
(S) o-Terphenyl	0.000	<u>J7</u>		18.0-148		10/20/2021 14:54	<u>WG1759978</u>

SDG: L1415900

SAMPLE RESULTS - 03 L1415900

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Total Solids by Method 2540 G-2011

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	Result	Qualifier	Dilution	Analysis	Batch		<u> </u>
Analyte	%			date / time		2	
Total Solids	98.4		1	10/15/2021 12:57	WG1757591	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	U		9.35	20.3	1	10/21/2021 16:10	WG1760693

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

	Result (dry)	Qualifior	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
	Result (uly)	Qualifier	WDL (ury)	KDL (ury)	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		G
TPH (GC/FID) Low Fraction	0.0404	J	0.0220	0.102	1	10/17/2021 00:17	WG1755314	
(S) a,a,a-Trifluorotoluene(FID)	97.0			77.0-120		10/17/2021 00:17	WG1755314	⁷ G

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000482	0.00103	1	10/16/2021 08:14	WG1758133
Foluene	0.00501	Ţ	0.00134	0.00516	1	10/16/2021 08:14	WG1758133
Ethylbenzene	U		0.000761	0.00258	1	10/16/2021 08:14	WG1758133
otal Xylenes	0.00452	J	0.000908	0.00671	1	10/16/2021 08:14	WG1758133
(S) Toluene-d8	108			75.0-131		10/16/2021 08:14	WG1758133
(S) 4-Bromofluorobenzene	102			67.0-138		10/16/2021 08:14	WG1758133
(S) 1,2-Dichloroethane-d4	76.8			70.0-130		10/16/2021 08:14	WG1758133

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2610		65.4	163	40	10/20/2021 15:07	<u>WG1759978</u>
C28-C36 Motor Oil Range	4420		11.2	163	40	10/20/2021 15:07	<u>WG1759978</u>
(S) o-Terphenyl	0.000	<u>J7</u>		18.0-148		10/20/2021 15:07	WG1759978

SDG: L1415900

SAMPLE RESULTS - 04 L1415900

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	94.0		1	10/16/2021 07:57	WG1757750	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	U	<u>J6</u>	9.79	21.3	1	10/21/2021 16:20	WG1760693	CII

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	Bateri	
TPH (GC/FID) Low Fraction	0.0361	J	0.0231	0.106	1	10/17/2021 00:41	WG1755314	
(S) a,a,a-Trifluorotoluene(FID)	100			77.0-120		10/17/2021 00:41	WG1755314	

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		0.000527	0.00113	1	10/16/2021 08:34	<u>WG1758133</u>
Toluene	U		0.00147	0.00564	1	10/16/2021 08:34	<u>WG1758133</u>
Ethylbenzene	U		0.000831	0.00282	1	10/16/2021 08:34	WG1758133
Total Xylenes	U		0.000993	0.00733	1	10/16/2021 08:34	<u>WG1758133</u>
(S) Toluene-d8	109			75.0-131		10/16/2021 08:34	WG1758133
(S) 4-Bromofluorobenzene	101			67.0-138		10/16/2021 08:34	WG1758133
(S) 1,2-Dichloroethane-d4	74.4			70.0-130		10/16/2021 08:34	WG1758133

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	5.77		1.71	4.26	1	10/20/2021 12:01	<u>WG1759978</u>
C28-C36 Motor Oil Range	8.00		0.291	4.26	1	10/20/2021 12:01	<u>WG1759978</u>
(S) o-Terphenyl	53.2			18.0-148		10/20/2021 12:01	WG1759978

SAMPLE RESULTS - 05

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	92.0		1	10/16/2021 07:57	<u>WG1757750</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	U		10.0	21.7	1	10/21/2021 16:58	WG1760693

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	0.0577	J	0.0236	0.109	1	10/17/2021 01:05	WG1755314	
(S) a,a,a-Trifluorotoluene(FID)	100			77.0-120		10/17/2021 01:05	WG1755314	

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		0.000548	0.00117	1	10/16/2021 08:55	<u>WG1758133</u>
Toluene	U		0.00153	0.00587	1	10/16/2021 08:55	<u>WG1758133</u>
Ethylbenzene	U		0.000865	0.00293	1	10/16/2021 08:55	<u>WG1758133</u>
Total Xylenes	U		0.00103	0.00763	1	10/16/2021 08:55	<u>WG1758133</u>
(S) Toluene-d8	105			75.0-131		10/16/2021 08:55	<u>WG1758133</u>
(S) 4-Bromofluorobenzene	100			67.0-138		10/16/2021 08:55	<u>WG1758133</u>
(S) 1,2-Dichloroethane-d4	73.6			70.0-130		10/16/2021 08:55	WG1758133

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	20.1		1.75	4.35	1	10/20/2021 13:02	<u>WG1759978</u>
C28-C36 Motor Oil Range	37.8		0.298	4.35	1	10/20/2021 13:02	<u>WG1759978</u>
(S) o-Terphenyl	48.0			18.0-148		10/20/2021 13:02	WG1759978

SAMPLE RESULTS - 06

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch		Ср
Analyte	%			date / time		2	
Total Solids	97.8		1	10/16/2021 07:57	WG1757750		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		9.40	20.4	1	10/21/2021 17:26	WG1760693

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
	Result (dry)	Quanner	WDE (ury)	KDE (dry)	Dilution	,	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0407	J	0.0222	0.102	1	10/17/2021 01:28	WG1755314	l
(S) a,a,a-Trifluorotoluene(FID)	99.0			77.0-120		10/17/2021 01:28	<u>WG1755314</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		0.000488	0.00104	1	10/16/2021 09:16	<u>WG1758133</u>
Toluene	U		0.00136	0.00522	1	10/16/2021 09:16	<u>WG1758133</u>
Ethylbenzene	U		0.000770	0.00261	1	10/16/2021 09:16	<u>WG1758133</u>
Total Xylenes	U		0.000919	0.00679	1	10/16/2021 09:16	<u>WG1758133</u>
(S) Toluene-d8	105			75.0-131		10/16/2021 09:16	<u>WG1758133</u>
(S) 4-Bromofluorobenzene	101			67.0-138		10/16/2021 09:16	<u>WG1758133</u>
(S) 1,2-Dichloroethane-d4	79.2			70.0-130		10/16/2021 09:16	WG1758133

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.52	J	1.65	4.09	1	10/20/2021 11:48	<u>WG1759978</u>
C28-C36 Motor Oil Range	13.0		0.280	4.09	1	10/20/2021 11:48	<u>WG1759978</u>
(S) o-Terphenyl	67.2			18.0-148		10/20/2021 11:48	WG1759978

SAMPLE RESULTS - 07 L1415900

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	99.2		1	10/16/2021 07:57	WG1757750	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		9.27	20.2	1	10/21/2021 17:36	WG1760693

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	U		0.0219	0.101	1	10/20/2021 03:47	<u>WG1759217</u>	
(S) a,a,a-Trifluorotoluene(FID)	109			77.0-120		10/20/2021 03:47	WG1759217	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000474	0.00102	1	10/16/2021 09:37	<u>WG1758133</u>
Toluene	U		0.00132	0.00508	1	10/16/2021 09:37	<u>WG1758133</u>
Ethylbenzene	U		0.000749	0.00254	1	10/16/2021 09:37	WG1758133
Total Xylenes	U		0.000894	0.00660	1	10/16/2021 09:37	<u>WG1758133</u>
(S) Toluene-d8	108			75.0-131		10/16/2021 09:37	WG1758133
(S) 4-Bromofluorobenzene	102			67.0-138		10/16/2021 09:37	<u>WG1758133</u>
(S) 1,2-Dichloroethane-d4	76.6			70.0-130		10/16/2021 09:37	WG1758133

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.65	J	1.62	4.03	1	10/20/2021 10:46	<u>WG1759978</u>
C28-C36 Motor Oil Range	1.98	<u>B J</u>	0.276	4.03	1	10/20/2021 10:46	<u>WG1759978</u>
(S) o-Terphenyl	89.4			18.0-148		10/20/2021 10:46	WG1759978

SAMPLE RESULTS - 08

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ċ	Ср
Analyte	%			date / time		2	
Total Solids	98.8		1	10/16/2021 07:57	WG1757750	7	Τс

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.31	20.2	1	10/21/2021 17:46	WG1760693

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
	Result (ury)	Qualifier	WDE (ury)	KDE (dry)	Dilution	,	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		G
TPH (GC/FID) Low Fraction	U		0.0220	0.101	1	10/20/2021 04:09	WG1759217	
(S) a,a,a-Trifluorotoluene(FID)	109			77.0-120		10/20/2021 04:09	WG1759217	⁷ G

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000478	0.00102	1	10/16/2021 09:57	<u>WG1758133</u>
Toluene	U		0.00133	0.00512	1	10/16/2021 09:57	<u>WG1758133</u>
Ethylbenzene	U		0.000755	0.00256	1	10/16/2021 09:57	<u>WG1758133</u>
Total Xylenes	U		0.000901	0.00666	1	10/16/2021 09:57	<u>WG1758133</u>
(S) Toluene-d8	108			75.0-131		10/16/2021 09:57	WG1758133
(S) 4-Bromofluorobenzene	102			67.0-138		10/16/2021 09:57	<u>WG1758133</u>
(S) 1,2-Dichloroethane-d4	74.9			70.0-130		10/16/2021 09:57	WG1758133

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.09	J	1.63	4.05	1	10/20/2021 11:23	WG1759978
C28-C36 Motor Oil Range	14.7		0.277	4.05	1	10/20/2021 11:23	<u>WG1759978</u>
(S) o-Terphenyl	82.0			18.0-148		10/20/2021 11:23	WG1759978

SDG: L1415900

SAMPLE RESULTS - 09

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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	10/16/2021 07:57	WG1757750	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		9.90	21.5	1	10/21/2021 17:55	WG1760693

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	U		0.0234	0.108	1	10/20/2021 04:30	WG1759217	
(S) a,a,a-Trifluorotoluene(FID)	108			77.0-120		10/20/2021 04:30	<u>WG1759217</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		0.000539	0.00115	1	10/16/2021 10:18	WG1758133
Toluene	U		0.00150	0.00577	1	10/16/2021 10:18	WG1758133
Ethylbenzene	U		0.000850	0.00288	1	10/16/2021 10:18	WG1758133
Total Xylenes	U		0.00101	0.00750	1	10/16/2021 10:18	WG1758133
(S) Toluene-d8	108			75.0-131		10/16/2021 10:18	WG1758133
(S) 4-Bromofluorobenzene	103			67.0-138		10/16/2021 10:18	WG1758133
(S) 1,2-Dichloroethane-d4	79.6			70.0-130		10/16/2021 10:18	WG1758133

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.11	J	1.73	4.31	1	10/20/2021 10:59	<u>WG1759978</u>
C28-C36 Motor Oil Range	5.04		0.295	4.31	1	10/20/2021 10:59	<u>WG1759978</u>
(S) o-Terphenyl	81.6			18.0-148		10/20/2021 10:59	WG1759978

SAMPLE RESULTS - 10

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	98.2		1	10/16/2021 07:57	WG1757750	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		9.37	20.4	1	10/21/2021 18:05	WG1760693

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

	Result (dry)	Qualifior	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
	Result (uly)	Qualifier	WDL (UIY)	KDL (ury)	Dilution	,	Baten	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		QC
TPH (GC/FID) Low Fraction	U		0.0221	0.102	1	10/20/2021 04:52	WG1759217	
(S) a,a,a-Trifluorotoluene(FID)	108			77.0-120		10/20/2021 04:52	<u>WG1759217</u>	⁷ Gl

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000484	0.00104	1	10/16/2021 10:38	WG1758133
Toluene	0.00362	J	0.00135	0.00519	1	10/16/2021 10:38	WG1758133
Ethylbenzene	U		0.000764	0.00259	1	10/16/2021 10:38	WG1758133
Total Xylenes	0.0104		0.000913	0.00674	1	10/16/2021 10:38	WG1758133
(S) Toluene-d8	106			75.0-131		10/16/2021 10:38	WG1758133
(S) 4-Bromofluorobenzene	104			67.0-138		10/16/2021 10:38	WG1758133
(S) 1,2-Dichloroethane-d4	74.6			70.0-130		10/16/2021 10:38	WG1758133

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.03	J	1.64	4.07	1	10/20/2021 12:13	<u>WG1759978</u>
C28-C36 Motor Oil Range	15.7		0.279	4.07	1	10/20/2021 12:13	<u>WG1759978</u>
(S) o-Terphenyl	75.8			18.0-148		10/20/2021 12:13	WG1759978

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	98.3		1	10/16/2021 07:57	WG1757750	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		9.35	20.3	1	10/21/2021 18:14	WG1760693

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		⁶ G
TPH (GC/FID) Low Fraction	U		0.0221	0.102	1	10/20/2021 05:14	WG1759217	
(S) a,a,a-Trifluorotoluene(FID)	109			77.0-120		10/20/2021 05:14	<u>WG1759217</u>	⁷ C

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		0.000483	0.00103	1	10/16/2021 10:58	<u>WG1758133</u>
Toluene	0.00378	J	0.00134	0.00517	1	10/16/2021 10:58	<u>WG1758133</u>
Ethylbenzene	U		0.000762	0.00258	1	10/16/2021 10:58	<u>WG1758133</u>
Total Xylenes	0.00883		0.000910	0.00672	1	10/16/2021 10:58	<u>WG1758133</u>
(S) Toluene-d8	109			75.0-131		10/16/2021 10:58	<u>WG1758133</u>
(S) 4-Bromofluorobenzene	102			67.0-138		10/16/2021 10:58	<u>WG1758133</u>
(S) 1,2-Dichloroethane-d4	73.6			70.0-130		10/16/2021 10:58	WG1758133

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.61	J	1.64	4.07	1	10/20/2021 11:36	<u>WG1759978</u>
C28-C36 Motor Oil Range	4.17		0.279	4.07	1	10/20/2021 11:36	<u>WG1759978</u>
(S) o-Terphenyl	87.8			18.0-148		10/20/2021 11:36	WG1759978

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Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY L1415900-01,02,03

Page 111 of 142

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Method Blank (MB)

Method Blank	(IVIB)			
(MB) R3717274-1 10	0/15/21 12:57			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

L1415799-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1415799-08 10/15/21 12:57 • (DUP) R3717274-3 10/15/21 12:57	
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	Original Re	sult DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
nalyte	%	%		%		%
Total Solids	86.2	84.8	1	1.62		10

Laboratory Control Sample (LCS)

(LCS) R3717274-2 10/15/2	21 12:57				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

PAGE: 18 of 28

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Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY L1415900-04,05,06,07,08,09,10,11

Page 112 of 142

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Method Blank (MB)

(MB) R3717646-1 10/	16/21 07:57				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	%		%	%	
Total Solids	0.00200				

L1415900-08 Original Sample (OS) • Duplicate (DUP)

Laboratory Control Sample (LCS)

(LCS) R3717646-2 10	/16/21 07:57				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	99.9	85.0-115	

SDG: L1415900

DATE/TIME: 10/26/21 19:53

PAGE: 19 of 28

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Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY L1415900-01,02,03,04,05,06,07,08,09,10,11

Page 113 of 142

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Method Blank (MB)

(MB) R3720185-1 10/	/21/21 15:18			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		9.20	20.0

L1415900-04 Original Sample (OS) • Duplicate (DUP)

L1415900-11 Original Sample (OS) • Duplicate (DUP)

L1415900-11 Origir	nal Sample (OS) • Dup	licate (D	OUP)			
(OS) L1415900-11 10/21/2	1 18:14 • (DUP) R3	3720185-6 10	/21/21 18:2	4			
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	UP RPD imits	
Analyte	mg/kg	mg/kg		%		г	
Chloride	U	U	1	0.000		0	

Laboratory Control Sample (LCS)

(LCS) R3720185-2 10/21/2	21 15:27				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	192	96.1	90.0-110	

L1415900-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1415900-04 10/21/2	1 16:20 • (MS) R	3720185-4 10/	21/21 16:39 • (N	ISD) R3720185	-5 10/21/21 16:4	48						
	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	532	U	379	398	71.2	74.9	1	80.0-120	<u>J6</u>	<u>J6</u>	5.02	20

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PROJECT: 212C-MD-02506

SDG: L1415900

DATE/TIME: 10/26/21 19:53

PAGE: 20 of 28

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

QUALITY CONTROL SUMMARY

Page 114 of 142

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Method Blank (MB)

)				
(MB) R3718162-3 10/16/21	17:59				_
	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)	101			77.0-120	

Laboratory Control Sample (LCS)

(LCS) R3718162-1 10/16/21	CS) R3718162-1 10/16/21 16:48								
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier				
Analyte	mg/kg	mg/kg	%	%					
TPH (GC/FID) Low Fraction	5.50	5.32	96.7	72.0-127					
(S) a.a.a-Trifluorotoluene(FID)			103	77.0-120					

DATE/TIME: 10/26/21 19:53

PAGE: 21 of 28

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

QUALITY CONTROL SUMMARY

Page 115 of 142

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Method Blank (MB)

(MB) R3721497-2 10/20/2	21 03:26				-
	MB Result	MB Qualifier	MB MDL	MB RDL	1
Analyte	mg/kg		mg/kg	mg/kg	
TPH (GC/FID) Low Fraction	U		0.0217	0.100	
(S) a,a,a-Trifluorotoluene(FID)	109			77.0-120	

Laboratory Control Sample (LCS)

(LCS) R3721497-1 10/20/2	21 02:42				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	4.15	75.5	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			99.3	77.0-120	

L1416117-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1416117-01 10/20/21 07:23 • (MS) R3721497-3 10/20/21 10:59 • (MSD) R3721497-4 10/20/21 11:21												
	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	%	%		%			%	%
TPH (GC/FID) Low Fraction	5.56	U	2.42	2.36	43.6	42.5	1	10.0-151			2.53	28
(S) a,a,a-Trifluorotoluene(FID)					83.0	83.4		77.0-120				

SDG: L1415900 DATE/TIME: 10/26/21 19:53

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

QUALITY CONTROL SUMMARY L1415900-01,02,03,04,05,06,07,08,09,10,11

Page 116 of 142

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Method Blank (MB)

(MB) R3721306-3 10/16/21 06:11										
	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	106			75.0-131						
(S) 4-Bromofluorobenzene	101			67.0-138						
(S) 1,2-Dichloroethane-d4	77.0			70.0-130						

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

(LCS) R3721306-1 10/16/2	1 04:49 • (LCSD) R3721306-2	10/16/21 05:10								-
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	ľ
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%	
Benzene	0.125	0.111	0.119	88.8	95.2	70.0-123			6.96	20	8
Ethylbenzene	0.125	0.114	0.114	91.2	91.2	74.0-126			0.000	20	
Toluene	0.125	0.125	0.127	100	102	75.0-121			1.59	20	9
Xylenes, Total	0.375	0.376	0.382	100	102	72.0-127			1.58	20	ľ
(S) Toluene-d8				106	105	75.0-131					L
(S) 4-Bromofluorobenzene				98.7	102	67.0-138					
(S) 1,2-Dichloroethane-d4				80.0	83.7	70.0-130					

L1415776-32 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1415776-32 10/16/21	(OS) L1415776-32 10/16/21 12:21 • (MS) R3721306-4 10/16/21 13:50 • (MSD) R3721306-5 10/16/21 14:11											
	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	%	%		%			%	%
Benzene	49.5	18.1	36.9	54.8	38.0	74.1	396	10.0-149		<u>J3</u>	39.0	37
Ethylbenzene	49.5	5.81	30.3	50.9	49.5	91.1	396	10.0-160		<u>J3</u>	50.7	38
Toluene	49.5	19.1	41.6	60.8	45.5	84.2	396	10.0-156			37.5	38
Xylenes, Total	148	U	113	174	76.4	118	396	10.0-160		<u>J3</u>	42.5	38
(S) Toluene-d8					108	110		75.0-131				
(S) 4-Bromofluorobenzene					104	104		67.0-138				
(S) 1,2-Dichloroethane-d4					81.1	83.5		70.0-130				

SDG: L1415900 DATE/TIME: 10/26/21 19:53

PAGE: 23 of 28 Semi-Volatile Organic Compounds (GC) by Method 8015M

QUALITY CONTROL SUMMARY L1415900-01,02,03,04,05,06,07,08,09,10,11

Page 117 of 142

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Method Blank (MB)

(MB) R3719155-1 10/20/2	1 10:22				
	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-C36 Motor Oil Range	0.358	<u>J</u>	0.274	4.00	
(S) o-Terphenyl	90.1			18.0-148	

Laboratory Control Sample (LCS)

(LCS) R3719155-2 10/20	/21 10:34				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	43.6	87.2	50.0-150	
(S) o-Terphenyl			88.1	18.0-148	

L1415900-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1415900-10 10/20/21 12:13 • (MS) R3719155-3 10/20/21 12:25 • (MSD) R3719155-4 10/20/21 12:38												
	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	49.5	4.03	42.3	43.7	77.2	78.7	1	50.0-150			3.32	20
(S) o-Terphenyl					61.1	64.2		18.0-148				

DATE/TIME: 10/26/21 19:53

GLOSSARY OF TERMS

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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

Appreviations and	
(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 fo each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

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

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Page	119	of 142	
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Τс

Ss

Cn

Sr

Qc

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Sc

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
lorida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
daho	TN00003	Ohio–VAP	CL0069
llinois	200008	Oklahoma	9915
ndiana	C-TN-01	Oregon	TN200002
owa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
ouisiana	AI30792	Tennessee ¹⁴	2006
ouisiana	LA018	Texas	T104704245-20-18
laine	TN00003	Texas ⁵	LAB0152
flaryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Aichigan	9958	Virginia	110033
linnesota	047-999-395	Washington	C847
Aississippi	TN00003	West Virginia	233
lissouri	340	Wisconsin	998093910
fontana	CERT0086	Wyoming	A2LA
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
PA-Crypto	TN00003		

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

* 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 Analytical.

SDG: L1415900 DATE/TIME: 10/26/21 19:53

PAGE: 26 of 28 Received by OCD: 2/7/2022 10:46:30 PM Analysis Request of Chain of Custody Record

Page 120 of 142 Page : 1 of 2 901 West Wall Street, Suite 100 Midland, Texas 79701 Tetra Tech, Inc. TŁ Tel (432) 682-4559 Fax (432) 682-3946 ANALYSIS REQUEST Christian Llull Site Manager: Conoco Phillips **Client Name:** (Circle or Specify Method No.) Email: Christian.Llull@tetratech.com Contact Info: SEMU Strawn Battery Header Release **Project Name:** Phone: (512) 565-0190 Project Location: Project #: 212C-MD-02506 Lea County, New Mexico (county, state) Accounts Payable list) Invoice to: 901 West Wall Street, Suite 100 Midland, Texas 79701 ORO - MRO) Se Hg attached Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg Andrew Garcia Sampler Signature: Pace Analytical **Receiving Laboratory:** see 625 **COPTETRA Acctnum** Comments: DRO. 8270C/ TDS (Ext to C35) Chemistry 624 BTEX PRESERVATIVE 00 GRO -8260B / MATRIX SAMPLING Semi. Vol. FILTERED (Y/N) METHOD CONTAINERS Sulfate ion/Cation Balar 608 LM (Asbestos) eral Water ide 300.0 YEAR: 2021 8021B PH TX1005 8015M (8082 / 8270C Vol. **CLP Volatil** 8015R Semi SAMPLE IDENTIFICATION LAB # WATER de C/MS \ SC/MS NONE CB's HOLD HNO₃ L1415900 3TEX LAB USE SOIL ۵. DATE TIME 덛 AH H TPH CE 5 ONLY # N Х 830 Х Х 1 X X 10/07/21 -01 AH-11 (0'-1') N X х Х х 1 X 10/07/21 900 M AH-11 (2'-3') X X X Х Х 1 N 930 10/07/21 AH-11 (4'-5') -u X X Х Х X 1 Ν 10/07/21 1000 AH-11 (6'-7') ·u Х х N х х х 1 10/07/21 1030 AH-11 (7'-8') -00 х X X Х X N 1 AH-12 (0'-1') 10/07/21 1100 -14 X х х Х Х 1 N -07 10/07/21 1130 AH-12 (2'-3') х Х -18 1300 х X 1 Ν X 10/07/21 AH-13 (0'-1') х X х Х Х 1 N 1330 10/07/21 AH-13 (2'-3') in X X X X -23 1430 Х 1 Ν AH-14 (0'-1') 10/07/21 Time: REMARKS: Date: Date: Time: Received by Relinguished by: LAB USE X Standard Biw Malan 6-8-21 13:00 ONLY 8-Oct-21 Andrew Garcia RUSH: Same Day 24 hr. 48 hr. 72 hr. Date: Time: Received by: Time: Relinquished by: Date: Sample Temperature (iw 8-21 1620 VD 10-8-21 Rush Charges Authorized Time: Date: Relinguished by: Date: Time: Received by Special Report Limits or TRRP Report 10/9/21 ORIGINAL COPY 1.04.051.0 (Circle) HAND DELIVERED FEDEX UPS Tracking #: H100

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æ	Tetra Tech, Inc.					Midlan Tel (4	d, Te 32)		970 559	9															
Client Name:	Conoco Phillips	Site Manager: Christian Llull				-	ANALYSIS REQUEST (Circle or Specify Method No.)																		
Project Name:	SEMU Strawn Battery Header Release	Contact Info	Contact Info: Email: Christian.Llull@tetratech.com Phone: (512) 565-0190							(0	irc	le (or a	spe		y № 	etn	od)					
Project Location: (county, state)	Lea County, New Mexico	Project #:	Project #: 212C-MD-02506									1 1 1				- Arroj		14-14-14-14-14-14-14-14-14-14-14-14-14-1							
nvoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 7	9701						*					6					14					d list)		
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Page 121 of 142

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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

SEMU Strawn Battery Header Release



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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Contents

Preface	2
How Soil Surveys Are Made	5
Soil Map	
Soil Map	
Legend	10
Map Unit Legend	
Map Unit Descriptions	
Lea County, New Mexico	13
KD—Kermit-Palomas fine sands, 0 to 12 percent slopes	13
PU—Pyote and Maljamar fine sands	15
References	17

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

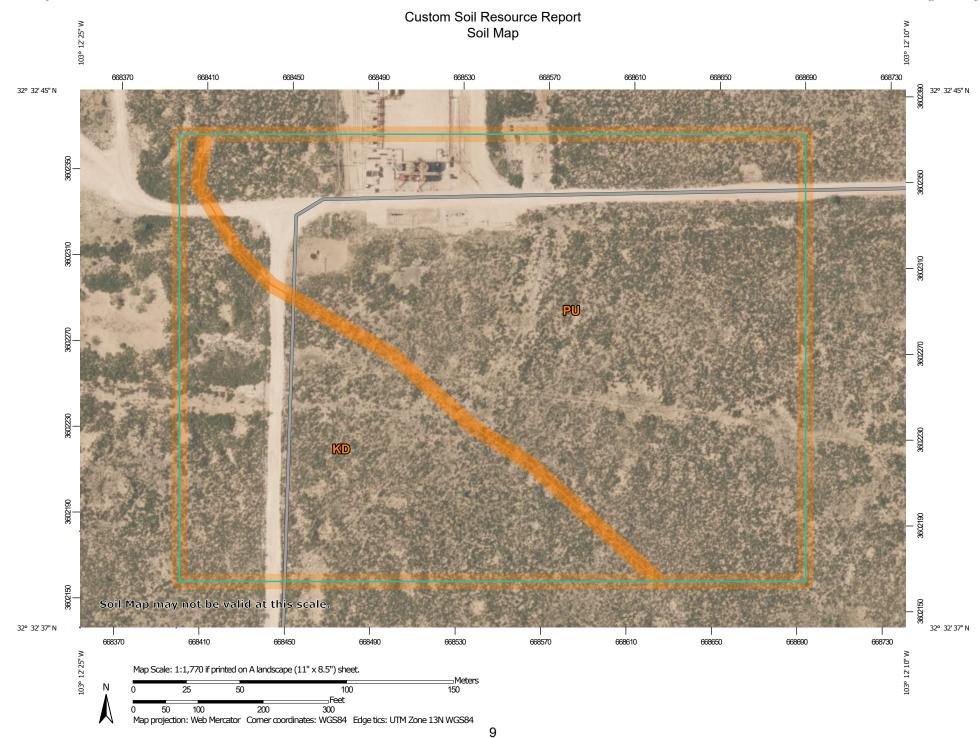
identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

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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Page 131 of 142



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Custom Soil Resource Report

MAP L	EGEND	MAP INFORMATION
Area of Interest (AOI) Area of Interest (AOI) Soils Soil Map Unit Polygons ✓ Soil Map Unit Lines O Soil Map Unit Points Special Point Features O Blowout ✓ Clay Spot ✓ Closed Depression ✓ Gravelly Spot ✓ Landfill ✓ Lava Flow	 Spoil Area Stony Spot Very Stony Spot Very Stony Spot Other Other Special Line Features Water Features Streams and Canals Transportation Fransportation Interstate Highways Interstate Highways US Routes US Routes Local Roads Eackground	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
Marsh or swamp Mine or Quarry Miscellaneous Water Perennial Water	Aerial Photography	distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required. This product is generated from the USDA-NRCS certified data a of the version date(s) listed below.
 Rock Outcrop Saline Spot Sandy Spot Severely Eroded Spot 		Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 18, Sep 10, 2021 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
KD	Kermit-Palomas fine sands, 0 to 12 percent slopes	5.2	34.3%
PU	Pyote and Maljamar fine sands	10.0	65.7%
Totals for Area of Interest		15.2	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

KD—Kermit-Palomas fine sands, 0 to 12 percent slopes

Map Unit Setting

National map unit symbol: dmpv Elevation: 3,000 to 4,400 feet Mean annual precipitation: 10 to 12 inches Mean annual air temperature: 60 to 62 degrees F Frost-free period: 190 to 205 days Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 70 percent *Palomas and similar soils:* 20 percent *Minor components:* 10 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Kermit

Setting

Landform: Dunes Landform position (two-dimensional): Shoulder, backslope, footslope Landform position (three-dimensional): Side slope Down-slope shape: Concave, convex, linear Across-slope shape: Convex Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 3 to 12 percent Depth to restrictive feature: More than 80 inches Drainage class: Excessively drained Runoff class: Very low Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr) Depth to water table: More than 80 inches Frequency of flooding: None Frequency of flooding: None Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm) Sodium adsorption ratio, maximum: 2.0 Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e Hydrologic Soil Group: A Ecological site: R042XC005NM - Deep Sand Hydric soil rating: No

Description of Palomas

Setting

Landform: Dunes

Custom Soil Resource Report

Landform position (two-dimensional): Shoulder, backslope, footslope Landform position (three-dimensional): Side slope Down-slope shape: Concave, convex, linear Across-slope shape: Convex Parent material: Alluvium derived from sandstone

Typical profile

A - 0 to 16 inches: fine sand *Bt - 16 to 60 inches:* sandy clay loam *Bk - 60 to 66 inches:* sandy loam

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 50 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Moderate (about 7.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e Hydrologic Soil Group: B Ecological site: R042XC003NM - Loamy Sand Hydric soil rating: No

Minor Components

Maljamar

Percent of map unit: 4 percent Ecological site: R042XC003NM - Loamy Sand Hydric soil rating: No

Pyote

Percent of map unit: 4 percent Ecological site: R042XC003NM - Loamy Sand Hydric soil rating: No

Palomas

Percent of map unit: 1 percent Ecological site: R042XC003NM - Loamy Sand Hydric soil rating: No

Dune land

Percent of map unit: 1 percent Hydric soil rating: No

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq Elevation: 3,000 to 3,900 feet Mean annual precipitation: 10 to 12 inches Mean annual air temperature: 60 to 62 degrees F Frost-free period: 190 to 205 days Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent Maljamar and similar soils: 44 percent Minor components: 10 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7s Hydrologic Soil Group: A

Custom Soil Resource Report

Ecological site: R042XC003NM - Loamy Sand *Hydric soil rating:* No

Description of Maljamar

Setting

Landform: Plains Landform position (three-dimensional): Rise Down-slope shape: Linear Across-slope shape: Linear Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand Bt - 24 to 50 inches: sandy clay loam Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7e Hydrologic Soil Group: B Ecological site: R042XC003NM - Loamy Sand Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent Ecological site: R042XC022NM - Sandhills Hydric soil rating: No

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NMSLO Seed Mix

Sandy (S)

SANDY (S) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
<u>Grasses:</u>			
Sand bluestem	Elida, VNS, So.	2.0	F
Little bluestem	Cimarron, Pastura	3.0	\mathbf{F}
Black grama	VNS, Southern	1.0	D
Sand dropseed	VNS, Southern	4.0	S
Plains bristlegrass	VNS, Southern	2.0	D
Forbs:			2
Firewheel (Gaillardia)	VNS, Southern	1.0	D
Annual Sunflower	VNS, Southern	1.0	D
Charles			8
Shrubs: Fourwing Soltbush	VNS, Southern	1.0	F
Fourwing Saltbush	vivo, southern	1.0	
	Total PLS/aci	re 16.0	8

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

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



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District III

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

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

CONDITIONS

Operator:	OGRID:
CONOCOPHILLIPS COMPANY	217817
600 W. Illinois Avenue	Action Number:
Midland, TX 79701	79347
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	Closure report due 05/23/2022	2/23/2022
chensley	NOTE: The OCD requires a copy of all correspondence relative to remedial projects be included in all proposal and/or final closure reports. Correspondence required to be included in reports may include, but not necessarily limited to, extension requests, liner inspection notifications, sample event notifications, spill/release/fire notifications, and variance requests. This will allow for notifications and requests to become a documented part of the incident file.	2/23/2022

CONDITIONS

Action 79347