

May 16, 2023

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

Re: Release Characterization and Remediation Closure Report
Maverick Permian, LLC
MCA 2C Injection Header Flange Release and MCA 2C Header East Line Release
Unit Letter J, Section 28, Township 17 South, Range 32 East
Lea County, New Mexico
Incident IDs: nRM1930950727 and nAPP2117456525

Dear Sir or Madam,

Tetra Tech, Inc. (Tetra Tech) was initially contracted by ConocoPhillips to assess two releases that occurred at the Maljamar Cooperative Agreement (MCA) 2C Production and Water Injection Header, located in Unit Letter J, Section 28, Township 17 South, Range 32 East, in Lea County, New Mexico (Site). The releases occurred at coordinates 32.803723°, -103.769483° and 32.803770°, -103.769476° as shown in **Figures 1** and **2**. Maverick Permian, LLC (Maverick) acquired this site from ConocoPhillips in 2022 and contracted Tetra Tech to continue working on the site remediation. This Closure Report covers both incidents, which were remediated concurrently.

BACKGROUND

MCA 2C Injection Header Flange Release (nRM1930950727)

According to the State of New Mexico C-141 Initial Report provided in **Appendix A**, the **nRM1930950727** release was discovered on October 2, 2019. The release occurred as the result of a leak from a gasket on the header flange valve causing a release of approximately 12.3 barrels (bbls) of crude oil and 110.7 bbls of produced water, of which 1 bbl of crude oil and 7 bbls of produced water were reported recovered during initial response activities. The release notification was received by the New Mexico Oil Conservation District (NMOCD) on November 5, 2019. The NMOCD assigned this release Remediation Permit (RP) number **1RP-5779** and Incident Identification (ID) **nRM1930950727**.

MCA 2C Header East Line Release (nAPP2117456525)

According to the State of New Mexico C-141 Initial Report provided in **Appendix B**, the **nAPP2117456525** release was discovered on June 15, 2021. The release occurred as the result of an injection line developing a leak at the header, below ground level, at the riser releasing approximately 9 barrels (bbls) of produced water, of which 0 bbl of produced water was reported as recovered during the initial response activities. The NMOCD

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received the release notification on June 24, 2021, and subsequently assigned the Site the Incident Identification (ID) **nAPP2117456525**.

SITE CHARACTERIZATION

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

The Site is within a New Mexico oil and gas production area. According to the New Mexico Office of the State Engineers (NMOSE) database, there are 2 wells within a ½ mile (800-meter) radius of the Site with an average depth to groundwater at 99 feet (ft) below ground surface (bgs). The site characterization data is included in **Appendix C**.

REGULATORY FRAMEWORK

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

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

Closure Criteria for Soils Impacted by a Release

Constituent	Site RRALs
Chloride	10,000 mg/kg
ТРН	2,500 mg/kg
Benzene	10 mg/kg
ВТЕХ	50 mg/kg

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

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Reclamation Requirements

Constituent	Reclamation Requirements
Chloride	600 mg/kg
ТРН	100 mg/kg

MCA 2C INJECTION HEADER FLANGE RELEASE (NRM1930950727) INITIAL RESPONSE AND ASSESSMENT ACTIVITIES

Initial Site Assessment and Analytical Results

An initial site assessment was conducted by ConocoPhillips (COP) in October 2019 when COP personnel collected soil samples from forty-five accessible locations (SP-1 through SP-45) throughout the release extent interior. The borings were installed to a maximum depth of 2 feet below ground surface (bgs). **Figure 3** depicts the release extent and the October 2019 sampling locations.

A total of 90 soil samples were collected from these boring locations and submitted to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for chloride via EPA Method SM4500Cl-B. Laboratory analytical reports and chain-of-custody documentation were previously submitted to the NMOCD under Incident ID **nRM1930950727** in the Release Characterization and Remediation Work Plan dated July 14, 2021.

During the initial assessment event, analytical results associated with the majority of sample locations exceeded the reclamation requirement of 600 mg/kg chloride. However, of the 45 sample locations, the analytical results associated with 9 of the sample locations (SP #5, SP #12, SP #13, SP #25, SP #27, SP #29, SP #31, SP #32 and SP #42) were below 600 mg/kg for chloride in both the surface and 2 feet bgs sample depths. Results from the October 2019 soil screening event are summarized in **Table 1**. Neither horizontal nor vertical delineation of the release was achieved during this assessment.

Initial Response and Remedial Activities

In accordance with 19.15.29.8. B. (4) NMAC "the responsible party may commence remediation immediately after discovery of a release", COP elected to begin remediation of the southern end of the footprint in early 2020. Portions of the release extent footprint found adjacent to the MCA #480 lease pad were excavated by COP personnel with heavy equipment to approximately 1 foot below ground surface (bgs) to remove the visually impacted soils. **Figure 3** depicts the excavated area.

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Additional Site Assessment

In order to achieve horizontal and vertical delineation of the nRM1930950727 release extent, Tetra Tech personnel conducted soil sampling from March to July 2020 on behalf of COP. Due to the abundance of surface flowlines and subsurface injection lines running across and through the release area footprint, a drilling rig was not able to safely access the release extent footprint and drill for delineation. Therefore, the site assessment activities consisted of digging a series of test pits within the release extent footprint with a mini excavator for vertical delineation, as well as completing borings for horizontal delineation around the release extent perimeter using a hand auger. These assessment activities were conducted in conjunction with additional assessment activities in the area, thus, sample location nomenclature is non-consecutive.

For the additional delineation, a total of four (4) test pits (or trenches) were completed within the interior of the nRM1930950727 release extent. Trenches T-5 & T-6 were completed in the southern portion of the footprint and T-7 & T-8 were completed in the northern portion of the footprint.

A series of auger holes (AH) were completed as shown in **Figure 4A** to complete horizontal delineation. These auger holes were installed along and around the perimeter of the release extent (to the north, east, south, and west, respectively) to a depth of 4 ft bgs to achieve horizontal delineation. The auger holes were completed alongside the trench locations and named accordingly. For instance, AH-5E and AH-5W are locations that provide horizontal delineation on the east and west sides of T-5, respectively. **Figure 4A** depicts the release extent and the May 2020 sampling locations. In some areas, additional step-out locations were required for horizontal delineation. These locations are designated with a numeral following the cardinal direction (*i.e.*, AH-5W-2).

A total of 41 soil samples were collected from these various trench and boring locations and submitted to Pace Analytical National Center for Testing & Innovation (Pace) in Nashville, Tennessee to be analyzed for a combination of chloride via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B.

Summary of Assessment and Characterization

During the additional assessment event in 2020, the analytical results associated with boring locations T-5 through T-8, AH-5S, AH-5W-2, AH-7W, AH-7E, and AH-8W were reported at concentrations greater than RRALs for TPH and/or chloride in the minority of the sample intervals. Analytical results associated with boring locations AH-5S-2, AH-5W, AH-5E, AH-6W, AH-6E, AH-7W-2, AH-7E-2, AH-8W-2, AH-8E, and AH-8N were below the RRALs for TPH, BTEX, and chloride. Soil sampling events are summarized in **Table 2** and **Table 3**. Laboratory analytical reports and chain-of-custody documentation were previously submitted to the NMOCD under Incident ID **nRM1930950727** in the Release Characterization and Remediation Work Plan dated July 14, 2021.

T-7 was installed within the release footprint to specifically clarify the vertical extent of the release in the nRM1930950727 footprint. The analytical results associated with the 17.5' sample at T-7 is the vertical

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delineation point for this release and the reported concentrations are less than the most stringent RRALs for chloride, TPH, and BTEX.

The horizontal extent of the release footprint was defined through several iterations of hand auger borings. The analytical results associated with the AH-5S location exceeded the RRAL for TPH, however, AH-5S-2 was completed as an additional southern delineation point and was below the applicable RRALs. AH-6E, AH-7E-2, and AH-8E bound the release to the east. After several iterative boring locations, the release extent is bound to the west by locations AH-5W, AH-6W, AH-7W-2, and AH-8W-2. AH-8N bounds the release to the north. These borings meet the requirements for horizontal delineation per 19.15.29.11(A)(5)(b) NMAC.

The analytical results associated with samples collected around the release extent in the upper four (4) feet were below the reclamation RRALs for total TPH (GRO + DRO + ORO), BTEX and/or chloride in all samples.

MCA 2C HEADER EAST LINE RELEASE (NAPP2117456525) INITIAL RESPONSE AND ASSESSMENT ACTIVITIES

Initial Response

In accordance with 19.15.29.8.B.(4) NMAC that states "the responsible party may commence remediation immediately after discovery of a release", COP elected to begin remediation of the impacted area associated with the NAPP2117456525 release in 2021. The on-pad area of the release footprint and off-pad areas in the pasture were hand dug and scraped to approximately 6 inches bgs to remove visually impacted soils. Approximately 38 cubic yards (CY) of impacted material was removed from the footprint and disposed of at the R360 Halfway Facility in Hobbs, New Mexico.

Site Assessment

In order to achieve horizontal and vertical delineation of the NAPP2117456525 release extent, Tetra Tech personnel conducted soil sampling on February 15 and 16, 2022 on behalf of COP. Due to the abundance of surface flowlines and subsurface injection lines running across and through the release area footprint, a drilling rig was not able to safely access the release extent footprint and drill for delineation. Therefore, the site assessment activities consisted of trenching a series of test pits within the release extent footprint with a mini excavator for vertical delineation, as well as completing borings for horizontal delineation around the release extent perimeter using a hand auger. A total of four (4) trenches (T-1 through T-4) were installed within the observed release footprint to a depth of 12 ft bgs in order to achieve vertical delineation of the release extent. A total of nine (9) borings (AH-1 through AH-9) were installed along the perimeter of the observed release footprint to achieve horizontal delineation. The trench and boring locations are shown in **Figure 4B**.

A total of 42 soil samples were collected from the four trench and nine borehole locations, then submitted to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for a combination of chlorides via Standard Method 4500CL-B, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B.

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Summary of Sampling Results

Laboratory analytical results from the February 2022 assessment activities are summarized in **Table 2** and **Table 3**. The analytical results associated with samples collected from interior trench locations T-1 through T-4 reported concentrations greater than the Site reclamation requirements for soil in the upper four feet. Analytical results associated with the remainder of the samples collected from below four feet reported concentrations less than the RRALs for TPH, BTEX, and chloride. Based on the groundwater determination as described in the site characterization (greater than 50 feet below ground surface), the analytical results collected from the trench floors stand as a vertical definition. Analytical results associated with the 0-1 interval from perimeter location AH-8 exceeded the reclamation requirement for TPH. Boring AH-9 was completed to delineate the impact found in AH-8. All other analytical results from the perimeter boring locations were below Site reclamation requirements. The analytical results within the perimeter sample locations determine the lateral extent of this release and are 600 mg/kg chloride or less. Laboratory analytical reports and chain-of-custody documentation were previously submitted to the NMOCD under Incident ID **nAPP2117456525** in the Release Characterization and Remediation Work Plan dated March 2, 2022.

REMEDIATION WORK PLANS AND APPROVALS

Tetra Tech prepared the Release Characterization and Remediation Work Plans (Work Plans) for both releases on behalf of the former operator (ConocoPhillips). Maverick acquired the site from ConocoPhillips in June of 2022.

The Work Plan for incident **nRM1930950727** was submitted to NMOCD on July 14, 2021, and approved on November 8, 2021. A subsequent extension request was granted to June 30, 2022. However, just prior to the extension deadline, Maverick acquired the site. The proposed reclamation and remediation areas and depths from that work Plan are depicted in **Figure 5A**.

The Work Plan for incident **nAPP2117456525** was submitted to NMOCD on March 2, 2022, and approved on March 29, 2022. On behalf of Maverick, Tetra Tech requested an extension on June 21, 2022, but the Request was denied by the NMOCD on June 22, 2022. The proposed reclamation and remediation areas and depths from that work Plan are depicted in **Figure 5B**.

REMEDIATION AND CONFIRMATION SAMPLING

Based on the soil assessment and delineation results for the two releases and the approved remediation work plans, the areas of impact had significant overlap. Therefore, the remediation areas for both incidents were conducted as one field remediation project. Excavation activities commenced on March 7, 2023, and concluded on April 6, 2023.

Maverick's subcontractor, SDR Enterprises, Inc. (SDR) performed the excavation remediation work. SDR used a hydrovac to determine the exact locations of underground pipelines running through the remediation zone.

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They then used heavy equipment to excavate soil to within 2 feet of identified underground flowlines. The remaining soil was excavated by hand and the uncovered pipelines were supported with cribbing until the excavation was backfilled with clean soil.

SDR excavated a total area of 1,246 square yards. The entire area was excavated to a minimum depth of 2 feet below ground surface (bgs). Based on the previously obtained site data, as well as confirmation samples obtained during remediation, approximately 40 percent of the area (497 square yards) was excavated to a total depth of 4 feet bgs. A total of 1,280 CY of soil was excavated and transported to R360 CRI in Hobbs, New Mexico, for disposal. **Figure 6** depicts the areas and depths excavated during the remediation work.

Upon reaching the final lateral and vertical excavation extents of the excavation, Tetra Tech collected 81 confirmation samples, including 24 floor samples and 56 side wall samples from the excavated areas. Additionally, one floor confirmation sample was taken at the T-7 location, to confirm that Reclamation Requirements would not be exceeded from depths of 3 to 4 feet. The confirmation sample locations are shown in **Figures 7A** and **7B**. Collected confirmation samples were placed into laboratory-provided sample containers, and transferred to Cardinal Laboratories in Hobbs, New Mexico under chain-of-custody documentation. The soil samples were analyzed for chloride by Method SM4500 CL-B, TPH by Method 8015M, and BTEX by Method 8021B. Laboratory analytical results for submitted confirmation samples are summarized in **Table 4**.

Floor samples FS-1, FS-11, and FS-14 and sidewall samples NSW-2, ESW-9, ESW-9-A, WSW-12, WSW-13, WSW-13-A, and WSW-14 reported concentrations of Chloride and/or TPH as greater than Reclamation requirements. Additional lateral or vertical excavation was undertaken at these locations prior to reaching the final limits of excavation and final confirmation samples were then taken which reported concentrations as less than Reclamation Requirements as shown in **Table 4**. In the case of floor samples, the excavation was extended from 2 feet bgs to 4 feet bgs, and the final sample is designated with "-A" after the sample number. Likewise, when sidewall samples exceeded reclamation requirements, the excavation was extended laterally until reclamation requirements were achieved, and an additional sample was taken to confirm the result. These final "clean" samples are also designated with "-A" or" after the sample number. In two locations, ESW-9, and WSW-13, it took two additional attempts at excavation and sampling, hence the final "clean" sample is designated with "-B". Because all samples obtained at a depth of 4 feet bgs achieved Reclamation Requirements, clean margins were demonstrated to the most stringent remediation requirements.

Between April 3 and April 6, 2023, subsequent to the receipt of final confirmation sampling results, SDR completed backfilling of the excavated areas with 1,200 CY of clean topsoil obtained from the Seth Boyd Pit and trucked to the Site.

Confirmation sampling results are summarized in **Table 4** and laboratory analytical data packages including chain of custody documentation are included in **Appendix D**. Photographic Documentation showing the excavated areas and final grading after backfilling is provided in **Appendix E**.

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CONCLUSIONS

Based on the results of the excavation and confirmation sampling, the impacted soil within the footprint of both releases identified as incidents nRM1930950727 and nAPP2117456525 has been removed and properly disposed of offsite and the excavated area has been backfilled with clean material. Therefore, Site reclamation/remediation requirements have been achieved for both releases. The backfilled areas have been graded and seeded to aid in vegetation growth to complete reclamation. The NMSLO Sandy (S) seed mixture was used as shown in **Appendix F**. If you have any questions concerning the remediation activities for the Site, please call me at (832) 251-2093 or Steve at (713) 806-8871.

Sincerely,

Charles H. Terhune IV, P.G.

Program Manager Tetra Tech, Inc. Stephen Jester Program Manager

Tetra Tech, Inc.

Cc:

Mr. Bryce Wagoner - Maverick Natural Resources

Ms. Shelly Tucker - BLM

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Site Remediation Closure Report

Maverick Permian, LLC

MCA 2C Injection Header Flange and Header East Line Releases

Incident IDs: nRM1930950727 and nAPP2117456525

LIST OF ATTACHMENTS

Figures:

- Figure 1 Overview Map
- Figure 2 Topographic Map
- Figure 3 Approximate Release Extent and Initial Response (NRM1930950727)
- Figure 4A Site Assessment Map (NRM1930950727)
- Figure 4B Site Assessment Map (NAPP2117456525)
- Figure 5A Proposed Remediation Extent (NRM1930950727)
- Figure 5B Proposed Remediation Extent (NAPP2117456525)
- Figure 6 Excavation Extents (NRM1930950727 & NAPP2117456525)
- Figure 7A Confirmation Sampling Locations North (NRM1930950727 & NAPP2117456525)
- Figure 7B Confirmation Sampling Locations South (NRM1930950727 & NAPP2117456525)

Tables:

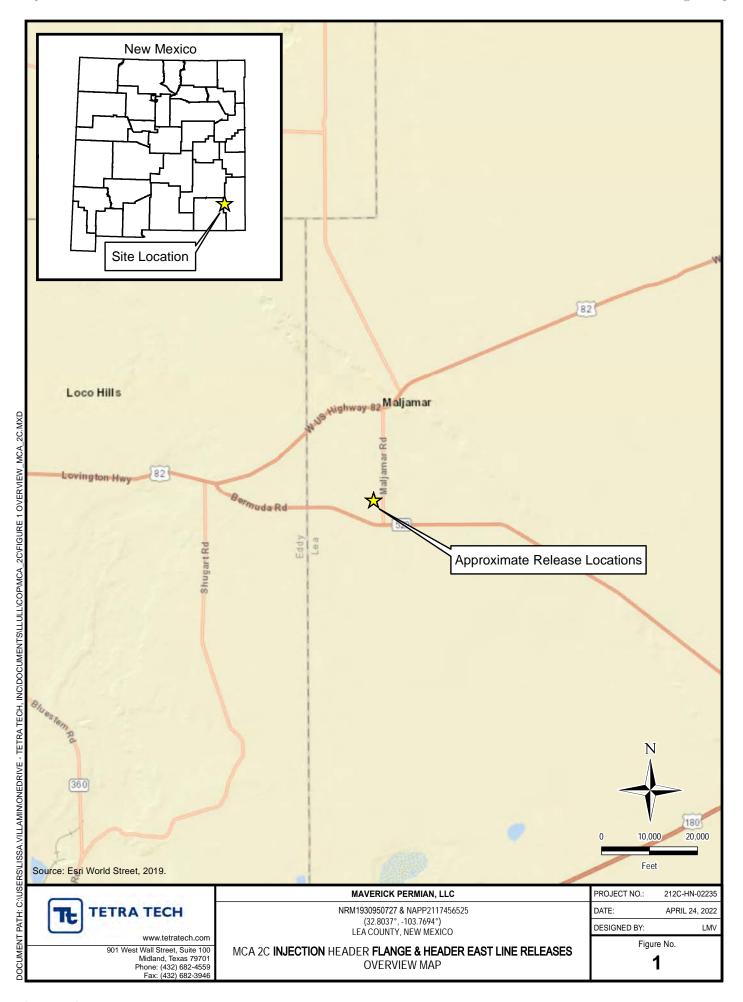
- Table 1 Summary of Analytical Results Initial Soil Assessment NRM1930950727
- Table 2 Summary of Analytical Results Additional Shallow Soil Assessment NRM1930950727 & NAPP2117456525
- Table 3 Summary of Analytical Results Additional Deep Soil Assessment NRM1930950727 & NAPP2117456525
- Table 4 Summary of Analytical Results Soil Confirmation Samples NRM1930950727 & NAPP2117456525

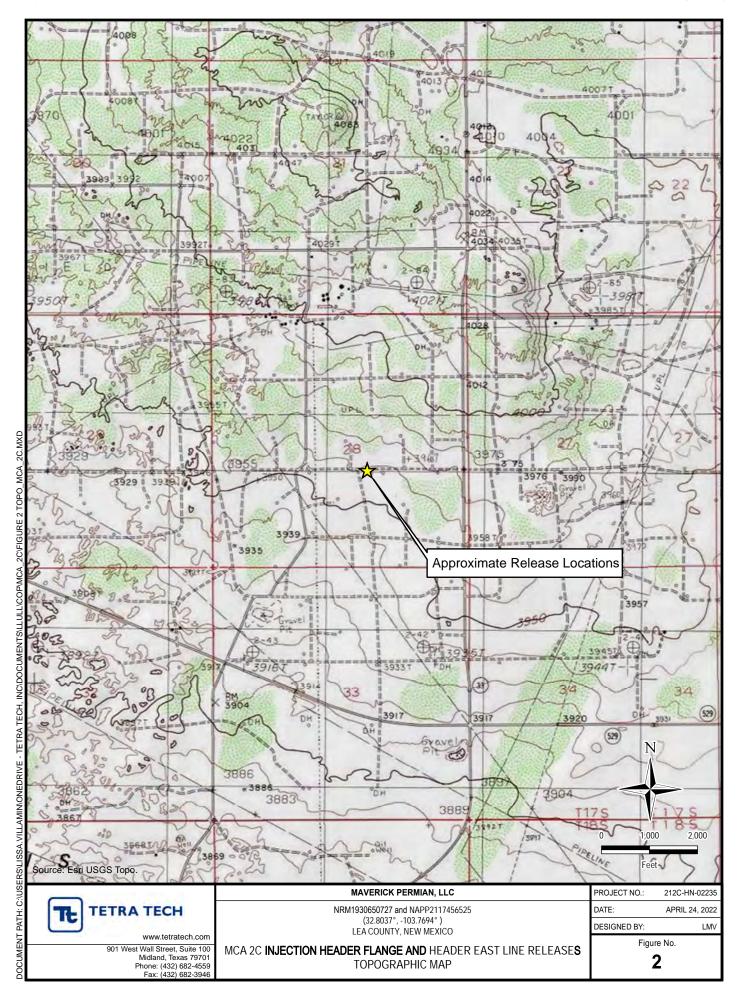
Appendices:

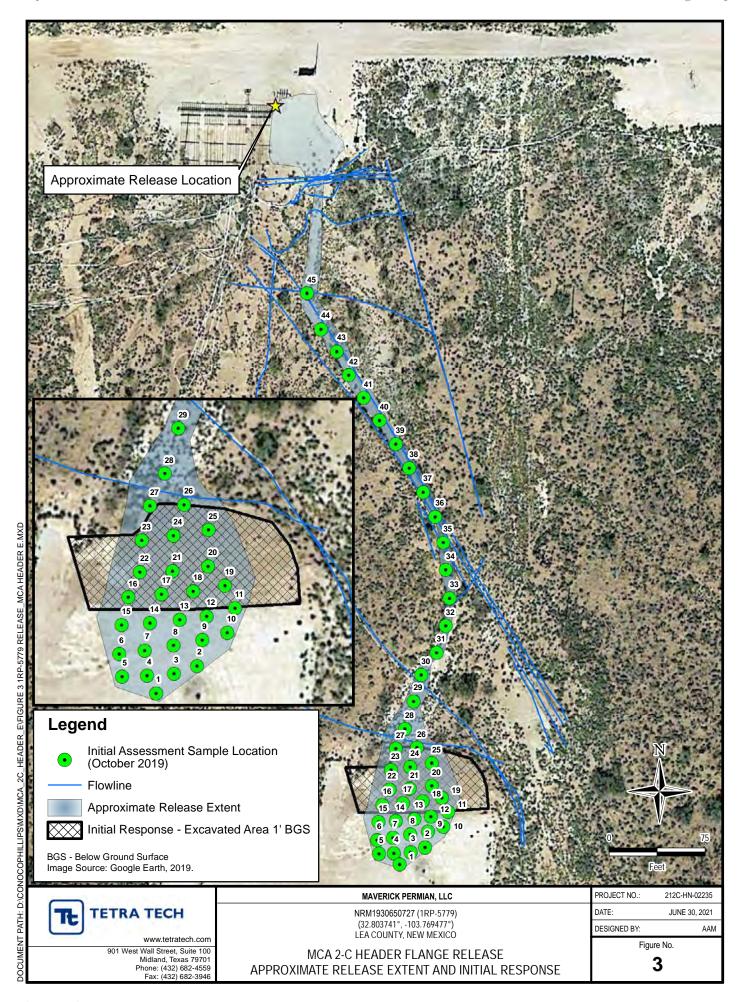
- Appendix A C-141 Form nRM1930950727
- Appendix B C-141 Form nAPP2117456525
- Appendix C Site Characterization Data
- Appendix D Laboratory Analytical Data
- Appendix E Photographic Documentation
- Appendix F NMSLO Seed Mixture Details

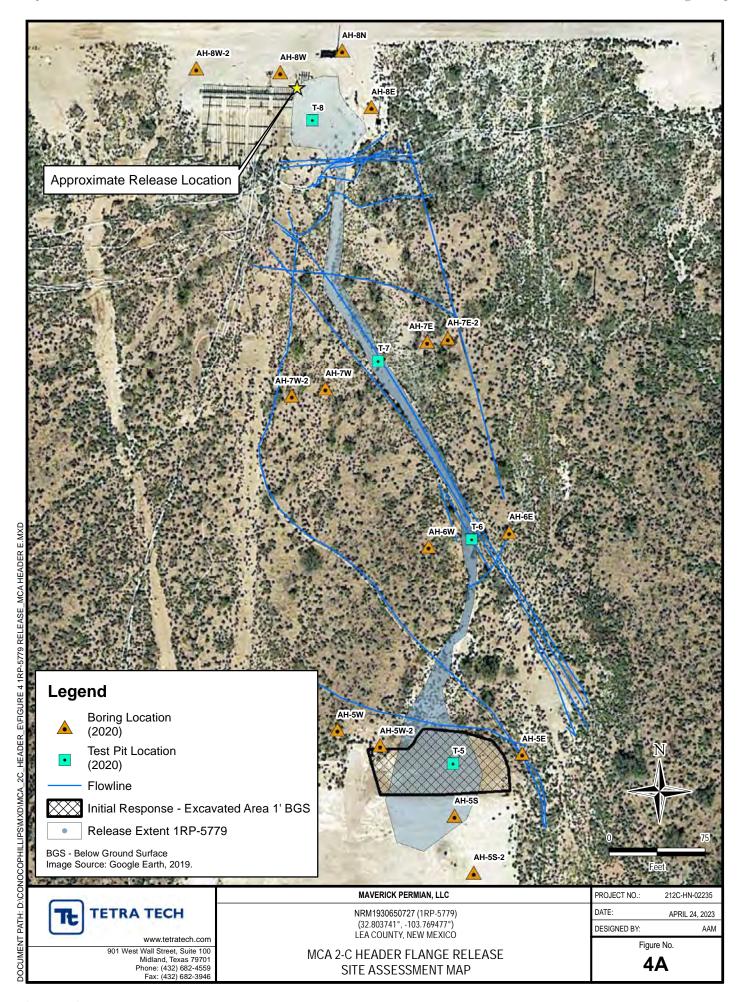
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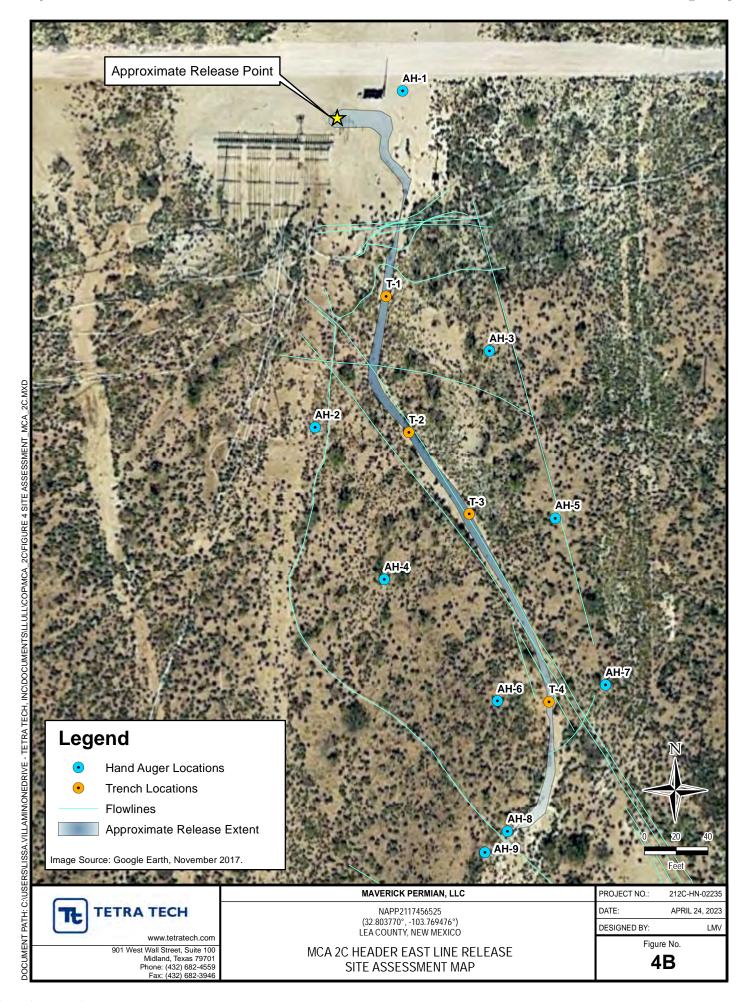
FIGURES

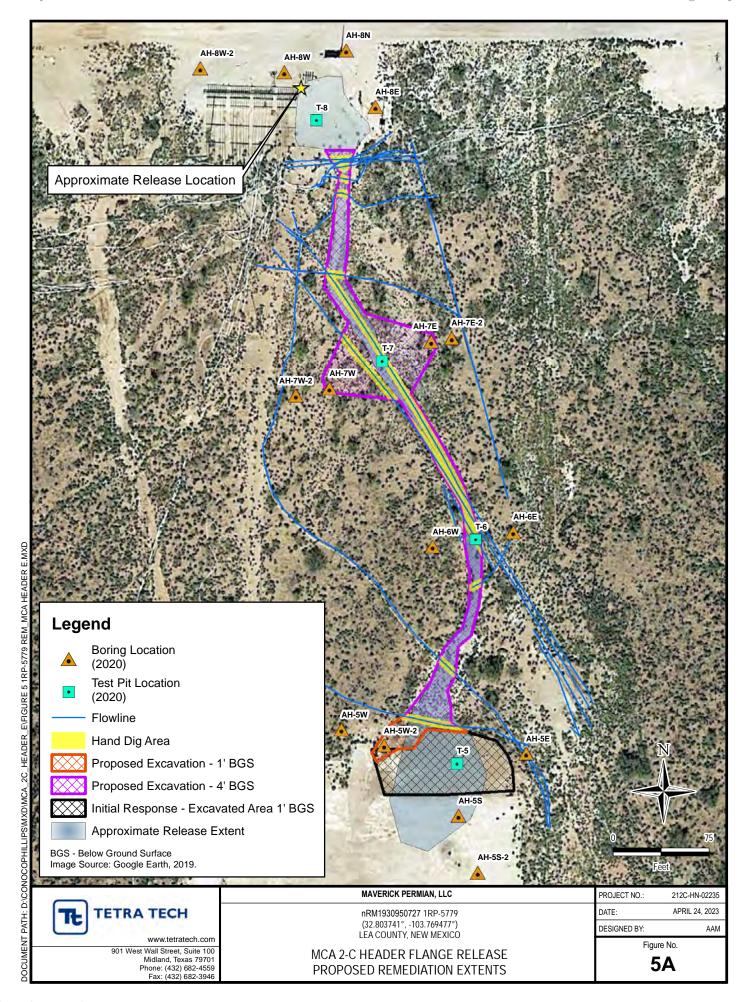


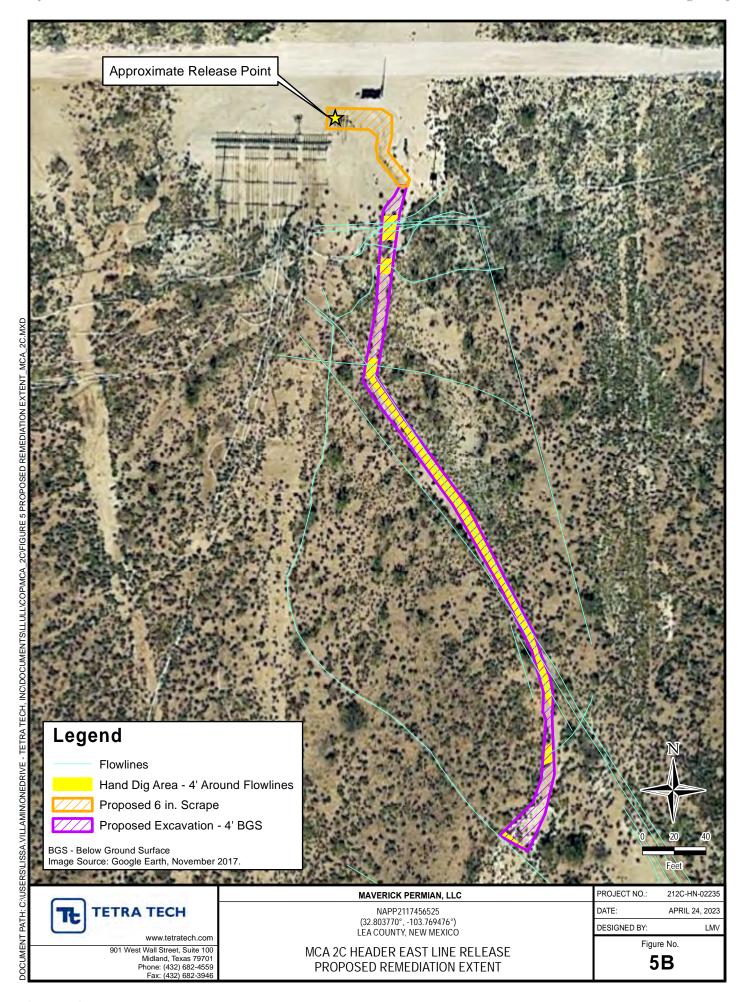


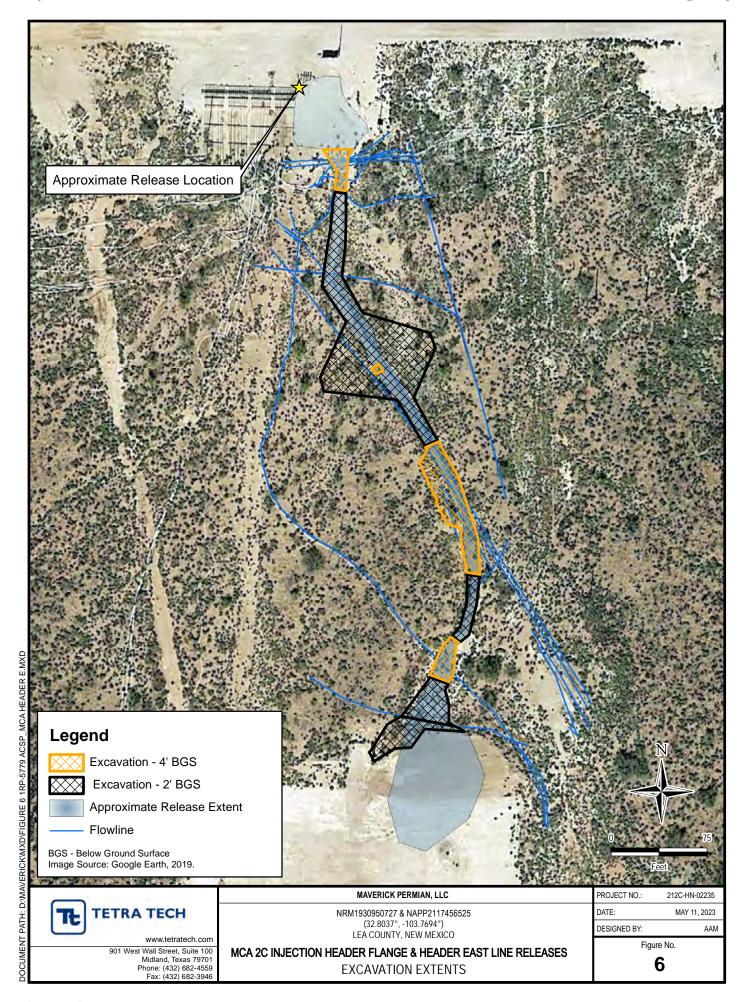




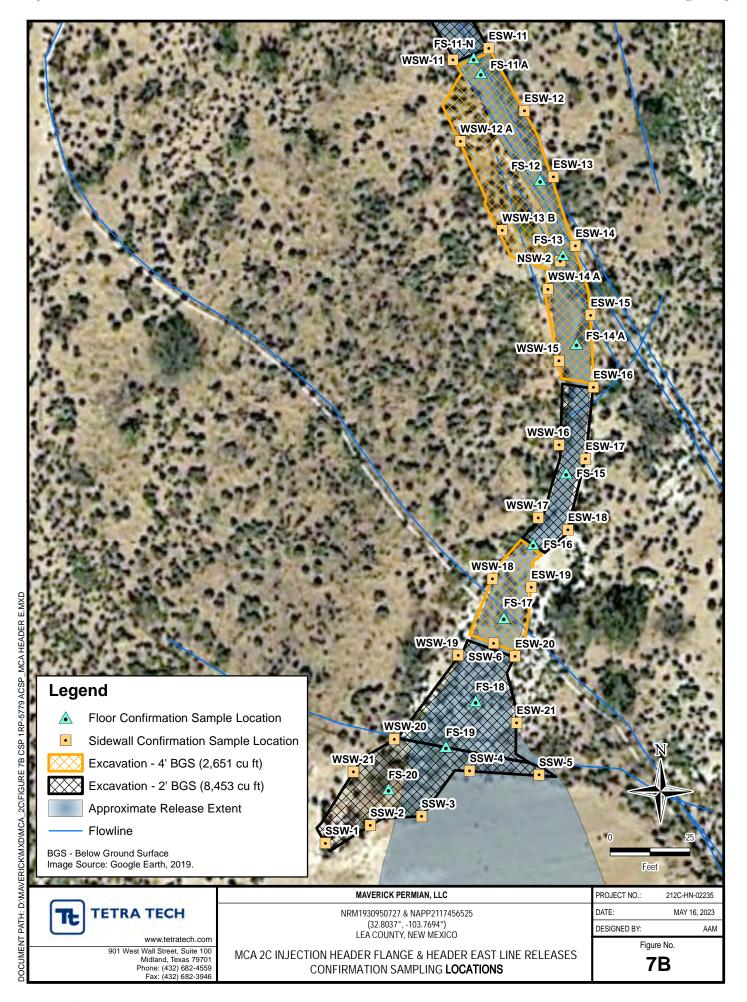












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TABLES

SUMMARY OF ASSESSMENT ANALYTICAL RESULTS INITIAL SOIL ASSESSMENT - nRM193095727 MAVERICK NATURAL RESOURCES MCA 2C INJECTION HEADER FLANGE RELEASE LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth Interval	Chloride ^{1,}	,2
		feet bgs	mg/kg	Q
urface Soil Reclar	nation Requirements	3	600	
SP #16	10/23/2019	Surface	18,400	
3F #16	10/23/2019	2	656	
SP #17	10/23/2019	Surface	9,730	
3P #11	10/23/2019	2	112	
CD #10	10/23/2019	Surface	14,600	
SP #18	10/23/2019	2	80	
CD #10	10/22/2010	Surface	8,130	
SP #19	SP #19 10/23/2019 —		96	
SP #20	10/23/2019	Surface	336	
3P #20	10/23/2019	2	4,560	
CD #21	10/23/2019	Surface	896	
SP #21	10/23/2019	2	64	
SP #22	10/23/2019	Surface	64	
3F #22	10/23/2019	2	1,730	
SP #23	10/23/2019	Surface	3,680	
3P #23	10/23/2019	2	320	
SP #24	10/23/2019	Surface	3,080	
3F #24	10/23/2013	2	336	
SP #25	10/23/2019	Surface	64	
3F #25	10/23/2013	2	448	
SP #26	10/23/2019	Surface	640	
3F #20	10/23/2013	2	1,740	
SP #27	10/23/2019	Surface	< 16.0	
3F #21	10/23/2013	2	< 16.0	
SP #28	10/23/2019	Surface	4,880	
3F #26	10/23/2013	2	1,550	
SD #29	10/23/2019	Surface	16	
3F #Z3	SP #29 10/23/2019	2	16	
SP #30	10/23/2019	Surface	224	
JI π30	10/23/2013	2	2,520	

Sample ID	Sample Date	Sample Depth Interval	Chlorid	e ^{1,2}			
		feet bgs	mg/kg	Q			
Surface Soil Reclam	ation Requirements	3	600				
SP #31	10/23/2019	Surface	32				
3F #31	10/23/2013	2	208				
SP #32	10/23/2019	Surface	16				
3F #3Z	10/23/2013	2	224				
SP #33	10/23/2019	Surface	3,560				
SP #33	10/23/2019	2	3,040				
CD #24	SP #34 10/23/2019		2,440				
3r #34	10/23/2019	2	1,090				
CD #2E	SP #35 10/23/2019		256				
3F #33	10/23/2013	2	1,760				
SP #36	10/23/2019	Surface	1,100				
3F #30	10/23/2013	2	2,360				
SP #37	10/23/2019	Surface	8,260				
3P #31	10/23/2013	2	816				
SP #38	10/23/2019	Surface	96				
3P #36	10/23/2019	2	768				
SP #39	10/23/2019	Surface	144				
3F #35	10/23/2013	2	1,410				
SP #40	10/23/2019	Surface	256				
3P #40	10/23/2019	2	1,170				
SP #41	10/23/2019	Surface	160				
3F #41	10/23/2013	2	608				
SP #42	10/23/2019	Surface	128				
JF #42	10/23/2019	2	448				
SP #43	10/23/2019	Surface	160				
3F #43	10/23/2019	2	880				
SP #44	10/23/2019	Surface	1,630				
3F # 44	10/23/2019	2	880				
SP #45	10/23/2019	Surface	1,780	QM-07			
3F #45	10/23/2019	2	752				

Sample ID	Sample Date	Sample Depth Interval	Chlorid	e ^{1,2}				
		feet bgs	mg/kg	Q				
rface Soil Reclam	ation Requirements ³		600					
SP #1	10/23/2019	Surface	16,000					
3P #1	10/23/2019	2	32					
SP #2	10/23/2019	Surface	864					
3F #2	10/23/2013	2	368					
SP #3	10/23/2019	Surface	27,600					
SP #3	10/23/2019	2	64					
CD #4	10/23/2019	Surface	64					
SP #4	10/23/2019	2	2,720					
CD #F	10/22/2010	Surface	48					
SP #5	10/23/2019	2	224					
CD #C	10/23/2019	Surface	32					
SP #6	10/23/2019	2	2,720					
CD #7	10/23/2019	Surface	48					
SP #7	10/23/2019	2	8,640					
60.00	10/22/2010	Surface	544					
SP #8	10/23/2019	2	800					
CD #0	10/23/2019	Surface	12,800					
SP #9	10/23/2019	2	32					
CD #10	10/22/2010	Surface	7,040					
SP #10	10/23/2019	2	32					
CD #11	10/23/2019	Surface	1,890					
SP #11	10/23/2019	2	16					
CD #12	10/22/2010	Surface	16					
SP #12	10/23/2019	2	32					
CD #12	10/22/2010	Surface	80					
SP #13	10/23/2019	2	16					
CD #14	10/22/2010	Surface	5,520					
SP #14	10/23/2019	2	16					
CD #15	10/22/2010	Surface	34,000	QM-0				
SP #15	10/23/2019	2	16					

NOTES:

bgs Below ground surface

1 EPA Method 300.0

2 Method SM4500Cl-B

3 19.15.29 NMAC Surface Soil Reclamation Requirements

SUMMARY OF ANALYTICAL RESULTS SHALLOW SOIL ASSESSMENT - NRM1930950727 & NAPP2117456525 MAVERICK NATURAL RESOURCES

MCA 2C INJECTION HEADER FLANGE AND HEADER EAST LINE RELEASES LEA COUNTY, NEW MEXICO

											BTEX ²									TPH ³		
		Sample Depth	Field Screeni	ing Results	Chlorid	le ¹										GRO	,	DRO	,	EXT DI	RO	Total TPH
Sample ID	Sample Date		Chloride	PID			Benzer	ne	Toluen	ie	Ethylben	zene	Total Xyl	lenes	Total BTEX	C ₆ - C	10	> C ₁₀ - 0	C ₁₀	> C ₂₈ -	Cac	(GRO+DRO+EXT DRO)
		feet bgs	ppm	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
Shallow Soil Reclama	tion Requirements		-	-	600		10		-		-		-		50	-		-		-		100
MCA 2C Injection Hea		RM1930950727)																				
	3/5/2020	0-1	50	0.0	2.5	J	< 0.00104		< 0.00521		< 0.00261		< 0.00678		-	0.0312	ВЈ	9	1	33.3		42.3
AH-5E	3/5/2020	3-4	34	0.0	209		< 0.00106		< 0.00529		< 0.00264		< 0.00687		_	< 0.106		3.18	1	8.05		11.2
	3/5/2020	0-1	220	0.0	38.2		< 0.00103		< 0.00515		< 0.00258		< 0.00670		_	0.0321	ВJ	133		391		524
AH-5S	3/5/2020	3-4	270	-	84.6		< 0.00110		< 0.00552		< 0.00276		< 0.00717		_	< 0.110		309		793		1102
	7/8/2020	0-1	147	0.0	11.8	1	< 0.00141		< 0.00707		< 0.00354		< 0.00920		_	0.0282	1	< 4.83		4.44	ВJ	4.47
AH-5S-2	7/8/2020	2-3	168	0.0	< 21.4		< 0.00107		< 0.00534		< 0.00267		< 0.00695		-	< 0.107		4.78		13.8		18.6
	3/5/2020	0-1	36	0.0	19.2		< 0.00102		< 0.00511		< 0.00256		< 0.00665		_	0.0273	ВЈ	23.8		63.4		87.2
AH-5W	3/5/2020	3-4	1290	-	33.7		< 0.00104		< 0.00520		< 0.00260		< 0.00676		_	0.0362	ВJ	18.5		6.18		24.7
	7/23/2020	0-1	75.5	2.7	11.4	J	< 0.00105		< 0.00526		< 0.00263		< 0.00683		_	0.0239	J	21.45		95.5		117
AH-5W-2	7/23/2020	2-3	124	2.1	33.3		< 0.00102		< 0.00512		< 0.00256		< 0.00665		_	< 0.102		14.2		46.7		60.9
	3/5/2020	0-1	35	0.0	1.38	J	< 0.00104		< 0.00522		< 0.00261		< 0.00679		_	0.0323	ВJ	2.54	J	9.51		12.1
AH-6E	3/5/2020	3-4	109	-	3.41	J	< 0.00105		< 0.00523		< 0.00262		< 0.00680		-	0.0247	ВЈ	< 4.19		3.52	J	3.54
	3/5/2020	0-1	20	0.0	1.27	J	< 0.00107		< 0.00535		< 0.00268		< 0.00696		_	0.0324	BJ	< 4.28		3	J	3.03
AH-6W	3/5/2020	3-4	130	-	24		< 0.00108		< 0.00542		< 0.00271		< 0.00705		_	0.0788	ВЈ	< 4.34		4.33	J	4.41
	7/8/2020	0-1	36	0.0	3.69	J	< 0.00106		< 0.00528		< 0.00264		< 0.00686		_	0.0548	ВЈ	9.98		28	-	38
AH-7E	7/8/2020	3-4	1250	0.0	1780		< 0.00115		< 0.00574		< 0.00287		< 0.00746		_	0.0422	ВЈ	7.51		16.9		24.5
	7/8/2020	0-1	74	0.0	< 24.6		< 0.00146		< 0.00730		< 0.00365		< 0.00949		_	< 0.123		9.48		49.5		59
AH-7E-2	7/8/2020	2-3	101	0.0	< 20.2		< 0.00101		< 0.00504		< 0.00252		< 0.00655		-	< 0.101		1.86	J	9,44		11.3
	3/5/2020	0-1	50	0.0	3.62	1	< 0.00106		< 0.00529		< 0.00264		< 0.00688		_	0.0546	ВЈ	16.4		53.2		69.7
AH-7W	3/5/2020	3-4	365	0.0	1950		< 0.00114		< 0.00571		< 0.00286		< 0.00743		_	0.0493	BJ	8.71		18.5		27.3
	7/8/2020	0-1	97	0.0	< 20.1		< 0.00100		< 0.00502		< 0.00251		< 0.00652		_	0.0251	1	3.57	1	23.9		27.5
AH-7W-2	7/8/2020	2-3	91	0.0	< 23.3		< 0.00133		< 0.00667		< 0.00333		< 0.00866		_	0.0304	J	2.8	J	14.7		17.5
	3/6/2020	0-1	68	0.1	40.3		< 0.00103		< 0.00514		< 0.00257		< 0.00668		_	0.0408	BJ	2.19	J	7.68		9.91
AH-8N	3/6/2020	3-4	450	0.0	174		< 0.00105		< 0.00525		< 0.00262		< 0.00682		_	0.0377	BJ	< 4.20		3.3	J	3.34
	3/6/2020	0-1	780	0.0	381		< 0.00106		< 0.00528		< 0.00264		< 0.00687		_	0.044	BJ	10.3		30.8		41.1
AH-8E	3/6/2020	3-4	350	0.0	71		< 0.00112		< 0.00559		< 0.00280		< 0.00727		_	0.0439	BJ	10.6		31.3		41.9
	3/6/2020	0-1	400	1.4	158		< 0.00112		< 0.00561		< 0.00280		< 0.00729		_	0.0381	ВЈ	726		1260		1986
AH-8W	3/6/2020	3-4	324	0.0	40.3		< 0.00112		< 0.00559		< 0.00280		< 0.00727		_	0.0422	ВЈ	2.09	J	2.72	J	4.85
	7/8/2020	0-1	222	0.0	16.6	J	< 0.00101		< 0.00504		< 0.00252		< 0.00655		-	< 0.101		7.36		40.1		47.5
AH-8W-2	7/8/2020	2-3	389	0.0	53.9		0.000717	J	0.00141	J	< 0.00256		0.00102	J	0.00315	< 0.102		7.58		37.6		45.2
	3/5/2020	1 - 2	200	0.0	38		< 0.00105		< 0.00526	-	< 0.00263		< 0.00684		-	0.035	ВJ	< 4.21		4.04	J	4.08
T-5	3/5/2020	3 - 4	539	0.1	628		< 0.00114		< 0.00571		< 0.00285		< 0.00742		-	0.0649	BJ	< 4.39		3.13	J	3.19
	3/5/2020	1-2	-	2.3	569		< 0.00111		< 0.00553		< 0.00277		< 0.00719		-	0.0265	BJ	1250		969	_	2219
T-6	3/5/2020	3-4	1250	0.6	-				-		-		-		-	-		-		-		-
	3/5/2020	1-2	-	2.9	1110		< 0.00110		< 0.00550		< 0.00275		< 0.00715		-	0.0522	ВJ	2.45	J	8.45		11
T-7	3/5/2020	3-4	1500	0.2	-		-		-		-		-		-	-		-		-		-
	3/28/2023	3-4			532	-	<0.050		<0.050		<0.050		<0.050		-	<10		<10		<10		-
	3/6/2020	1-2	1900	0.1	1080		< 0.00115		< 0.00574		< 0.00287		< 0.00746		-	0.0556	ВJ	324		633		957
T-8	3/6/2020	3-4	-	0.0	1580		< 0.00111		< 0.00557		< 0.00278		< 0.00724		-	0.0442	BJ	416		725		1141

SUMMARY OF ANALYTICAL RESULTS

SHALLOW SOIL ASSESSMENT - NRM1930950727 & NAPP2117456525

MAVERICK NATURAL RESOURCES

MCA 2C INJECTION HEADER FLANGE AND HEADER EAST LINE RELEASES LEA COUNTY, NEW MEXICO

			F: 116							BTEX ²							TPH ³		
6 1. 15	Constantia	Sample Depth	Field Screeni	ing Kesuits	Chloride ¹					eu II			T. L. I DTEV	GRO		DRO	EXT D	RO	Total TPH
Sample ID	Sample Date		Chloride	PID		Benze	ne	Tolue	ne	Ethylben	izene	Total Xylenes	Total BTEX	C ₆ - C ₁₀	0	> C ₁₀ - C ₂₈	> C ₂₈ -	C ₃₆	(GRO+DRO+EXT DRO)
		feet bgs	ppm	ppm	mg/kg Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg C	mg/kg	mg/kg	Q	mg/kg Q	mg/kg	Q	mg/kg
Shallow Soil Reclama	tion Requirements		-	-	600	10		-		-		-	50	-		-	-		100
MCA 2C Header East	Line Release (nAPP21	17456525)																	
AH-1	2/15/2022	0-1	107	-	80	< 0.050		< 0.050		< 0.050		< 0.150	< 0.300	< 10.0		< 10.0	< 10.0		-
An-1	2/15/2022	2-3	116	-	112	< 0.050		< 0.050		< 0.050		< 0.150	< 0.300	< 10.0		< 10.0	14.3		14.3
AH-2	2/15/2022	0-1	155	-	80	< 0.050		< 0.050		< 0.050		< 0.150	< 0.300	< 10.0		< 10.0	< 10.0		-
An-z	2/15/2022	2-3	514	-	256	< 0.050		< 0.050		< 0.050		< 0.150	< 0.300	< 10.0		< 10.0	< 10.0		-
AH-3	2/15/2022	0-1	70.5	-	32	< 0.050		< 0.050		< 0.050		< 0.150	< 0.300	< 10.0		14.6	< 10.0		14.6
AII-3	2/15/2022	2-3	499	-	224	< 0.050		< 0.050		< 0.050		< 0.150	< 0.300	< 10.0		< 10.0	< 10.0		-
AH-4	2/15/2022	0-1	41.5	-	48	< 0.050		< 0.050		< 0.050		< 0.150	< 0.300	< 10.0		< 10.0	< 10.0		-
АП-4	2/15/2022	2-3	562	-	272	< 0.050		< 0.050		< 0.050		< 0.150	< 0.300	< 10.0		< 10.0	< 10.0		-
AH-5	2/15/2022	0-1	59.4	-	32	< 0.050		< 0.050		< 0.050		< 0.150	< 0.300	< 10.0		< 10.0	< 10.0		-
An-5	2/15/2022	2-3	53.6	-	16	< 0.050		< 0.050		< 0.050		< 0.150	< 0.300	< 10.0		< 10.0	< 10.0		-
AH-6	2/15/2022	0-1	66.7	-	< 16.0	< 0.050		< 0.050		< 0.050		< 0.150	< 0.300	< 10.0		< 10.0	< 10.0		-
An-o	2/15/2022	2-3	30	-	32	< 0.050		< 0.050		< 0.050		< 0.150	< 0.300	< 10.0		< 10.0	< 10.0		-
AH-7	2/15/2022	0-1	42.5	-	< 16.0	< 0.050		< 0.050		< 0.050		< 0.150	< 0.300	< 10.0		< 10.0	< 10.0		-
All-7	2/15/2022	2-3	232	-	128	< 0.050		< 0.050		< 0.050		< 0.150	< 0.300	< 10.0		< 10.0	< 10.0		-
AH-8	2/15/2022	0-1	134	-	80	< 0.050		< 0.050		< 0.050		< 0.150	< 0.300	< 10.0		188	101		289
AII-0	2/15/2022	2-3	581	-	304	< 0.050		< 0.050		< 0.050		< 0.150	< 0.300	< 10.0		< 10.0	< 10.0		-
AH-9	2/21/2022	0-1	-	-	< 16.0	< 0.050		< 0.050		< 0.050		< 0.150	< 0.300	< 10.0		< 10.0	< 10.0		-
TD-1	2/16/2022	0-1	2620	-	2200	< 0.050		< 0.050		< 0.050		< 0.150	< 0.300	< 10.0		< 10.0	< 10.0		-
101	2/16/2022	2-3	2240	-	2200	< 0.050		< 0.050		< 0.050		< 0.150	< 0.300	< 10.0		< 10.0	< 10.0		-
TD-2	2/16/2022	0-1	1180	-	994	< 0.050		< 0.050		< 0.050		< 0.150	< 0.300	< 10.0		< 10.0	< 10.0		-
10-2	2/16/2022	2-3	2500	-	2440	< 0.050		< 0.050		< 0.050		< 0.150	< 0.300	< 10.0		< 10.0	< 10.0		-
TD-3	2/16/2022	0-1	-	-	480	< 0.050		< 0.050		< 0.050		< 0.150	< 0.300	< 10.0		37.9	< 10.0		37.9
10-5	2/16/2022	2-3	-	-	1090	< 0.050		< 0.050		< 0.050		< 0.150	< 0.300	< 10.0		< 10.0	< 10.0		-
TD-4	2/16/2022	0-1	-	-	1840	< 0.050		< 0.050		< 0.050		< 0.150	< 0.300	< 10.0		< 10.0	< 10.0		•
10-4	2/16/2022	2-3	-	-	1580	< 0.050		< 0.050		< 0.050		< 0.150	< 0.300	< 10.0		< 10.0	< 10.0		-

NOTES:

1: Method SM4500Cl-B

2: Method 8021B

3: Method 8015M

TPH: Total Petroleum Hydrocarbons

GRO: Gasoline range organics

DRO: Diesel range organics

bgs: Below ground surface

QUALIFIERS:

- B The same analyte was found in the associated blank
- The identification of the analyte is acceptable; the reported value is an estimate
- J3 The associated batch QC was outside of the established quality control range for precision
- T8 Sample was received past or too close to the method holding time expiration
- V3 The internal standarded exhibited poor recovery due to matrix interference; Results are biased high.

SUMMARY OF ANALYTICAL RESULTS

DEEP SOIL ASSESSMENT - NRM1930950727 & NAPP2117456525

MAVERICK NATURAL RESOURCES

MCA 2C INJECTION HEADER FLANGE AND HEADER EAST LINE RELEASES LEA COUNTY, NEW MEXICO

			F: 116							BTEX ²									TPH ³		
		Sample Depth	Field Screeni	ing Results	Chlor	ide ¹				511.11				T. Intry	GRO		DRO)	EXT D	RO	Total TPH
Sample ID	Sample Date		Chloride	PID			Benzene	Toli	iene	Ethylben	tene	Total Xyl	enes	Total BTEX	C ₆ - C ₁	10	> C ₁₀ -	C ₂₈	> C ₂₈ -	C ₃₆	(GRO+DRO+EXT DRO)
		feet bgs	ppm	ppm	mg/kg	Q	mg/kg	Q mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
Recommended Remo	liation Action Levels		-	-	10000		10	-		-		-		50	-		-		-		2500
MCA 2C Injection Hea	ader Flange Release (nF	RM1930950727)					-														
T-5	3/5/2020	5-6	2500	0.0	2630		< 0.00110	< 0.0055	1	< 0.00276		< 0.00717		-	0.067	J	< 1.78		7.83		7.9
1-5	3/5/2020	7-8	250	0.0	233		< 0.00110	< 0.0055	2	< 0.00276		< 0.00717		-	0.0347	BJ	< 4.42		1.56	J	1.59
T-6	3/5/2020	7-8	976	0.1	-		-	-		-		-		-	-		-		-		-
1-0	3/5/2020	9-10	823	-	722		< 0.00107	< 0.0053	5	< 0.00268		< 0.00696		-	0.0251	J	215		156		371
	3/5/2020	5-6	-	0.0	-		-	-		-		-		-	-		-		-		-
T-7	3/5/2020	7-8	1300	-	NS		NS	NS		NS		-		-	-		-		-		=
1-7	3/5/2020	9-10	1320	-	-		-	-		-		-		-	-		-		-		-
	3/5/2020	17.5	-	-	446		< 0.00105	< 0.0052	3	< 0.00262		< 0.00680		-	0.0392	BJ	1.76	J	1.61	J	3.41
T-8	3/6/2020	7-8	1300	-	1360		< 0.00108	< 0.0053	8	< 0.00269		< 0.00699		-	0.0372	BJ	6.49		7.75		14.3
1-0	3/6/2020	9-10	1250	0.0	1320		< 0.00109	< 0.0054	5	< 0.00273		< 0.00709		-	0.0379	ВJ	24.2		44.4		68.6
MCA 2C Header East	Line Release (nAPP211	7456525)																			
	2/16/2022	4-5	5740	-	7280		< 0.050	< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
TD-1	2/16/2022	6-7	2140	-	2080		< 0.050	< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
101	2/16/2022	9-10	1860	-	1120		< 0.050	< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
	2/16/2022	11-12	952	-	992		< 0.050	< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
	2/16/2022	4-5	3900	-	3840		< 0.050	< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
TD-2	2/16/2022	6-7	2590	-	2640		< 0.050	< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
10 2	2/16/2022	9-10	1150	-	101		< 0.050	< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
	2/16/2022	11-12	833	-	832		< 0.050	< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
	2/16/2022	4-5	-	-	1300		< 0.050	< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		96.9		47		144
TD-3	2/16/2022	6-7	-	-	1470		< 0.050	< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		114		11.1		125
10-3	2/16/2022	9-10	-	-	992		< 0.050	< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		117		23.8		141
	2/16/2022	11-12	-	-	1200		< 0.050	< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		27.8		< 10.0		27.8
	2/16/2022	4-5	-	-	3520	QM-07	< 0.050	< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
TD-4	2/16/2022	6-7	-	-	1200		< 0.050	< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
10-4	2/16/2022	9-10	-	-	1220		< 0.050	< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
	2/16/2022	11-12	-	-	1460		< 0.050	< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-

NOTES:

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GRO: Gasoline range organics

DRO: Diesel range organics

bgs: Below ground surface

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- J3 The associated batch QC was outside of the established quality control range for precision
- T8 Sample was received past or too close to the method holding time expiration
- V3 The internal standarded exhibited poor recovery due to matrix interference; Results are biased high.

SUMMARY OF ANALYTICAL RESULTS CONFIRMATION SAMPLING - NRM1930950727 & NAPP2117456525 MAVERICK NATURAL RESOURCES MCA 2C INJECTION HEADER FLANGE AND HEADER EAST LINE RELEASES LEA COUNTY, NEW MEXICO

		Field Screening							ВТЕХ	2							Т	·PH³		
		Sample Depth	Results	Chloric	de¹											GRO	Di		EXT DRO	Total TPH
Sample ID	Sample Date		Chloride PID	1		Benze	ne	Toluen	е	Ethylben	zene	Total Xy	lenes	Total BTI	EX	C ₆ - C ₁₀			> C ₂₈ - C ₃₆	(GRO+DRO+EXT DRO)
		feet bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q mg/kg	Q	mg/kg Q	mg/kg
Reclamation Require	ments (NMAC 19.15			600		10		<i>31</i> 8						50		37.3				100
FS-1	3/16/2023	2		48.0		< 0.050		<0.050		<0.050		<0.150		<0.300		<10.0	97.2	T	119	216.2
FS-1-A	3/24/2023	4		64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	56.4		65.6	122
FS-2	3/27/2023	4		384.0		<0.050		<0.050		< 0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
FS-3	3/17/2023	2		96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
FS-4	3/17/2023	2		96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
FS-5	3/20/2023	2		96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
FS-6	3/21/2023	2		32.0		< 0.050		<0.050		< 0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
FS-7	3/21/2023	2		112.0		<0.050		<0.050		< 0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
FS-8	3/21/2023	2		128.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
FS-9	3/21/2023	2		80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
FS-10	3/22/2023	2		112.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	39.7		27.5	67.2
FS-11	3/24/2023	2		208.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	65.9		70	135.9
FS-11-A	3/28/2023	4		128.0		<0.050		<0.050		< 0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
FS-12	3/24/2023	2		400.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
FS-13	3/24/2023	2		64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	39.9		43.1	83
FS-14	3/23/2023	2		80.0		<0.050		<0.050		< 0.050		<0.150		<0.300		<10.0	139		112	251
FS-14-A	3/27/2023	4		176.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
FS-15	3/23/2023	2		208.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	36.6		22.9	59.5
FS-16	3/23/2023	2		224.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	29.8		13.2	43
FS-17	3/24/2023	4		736.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
FS-18	3/23/2023	2		32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
FS-19	3/23/2023	2		128.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
FS-20	3/24/2023	2		48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
T-7	3/28/2023	4		532.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
NSW-1	3/27/2023	2		384.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
NSW-2	3/24/2023	1		1,920		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
FS-11-N	3/27/2023	3		128.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
ESW-1	3/27/2023	2		240.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
ESW-2	3/16/2023	1		32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
ESW-3	3/16/2023	1		16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
ESW-4	3/20/2023	1		48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
ESW-5	3/20/2023	1	 	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
ESW-6	3/21/2023	1	 	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
ESW-7	3/21/2023	1		48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
ESW-8	3/22/2023	1	 	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
ESW-9	3/22/2023	1		48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	69.9		48.2	118.1
ESW-9-A	3/24/2023	1		1,470		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
ESW-9-B	3/28/2023	1		192.0		<0.050		<0.050		< 0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
ESW-10	3/22/2023	1		48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
ESW-11	3/22/2023	1		32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
ESW-12	3/22/2023	1	 	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
ESW-13	3/22/2023	1		112.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
ESW-14	3/22/2023	1		32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	1	<10.0	<30
ESW-15	3/23/2023	1	 	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
ESW-16	3/23/2023	1	 	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30
ESW-17	3/23/2023	1	 	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	<30

SUMMARY OF ANALYTICAL RESULTS CONFIRMATION SAMPLING - NRM1930950727 & NAPP2117456525 MAVERICK NATURAL RESOURCES MCA 2C INJECTION HEADER FLANGE AND HEADER EAST LINE RELEASES LEA COUNTY, NEW MEXICO

			Field Scre	eening							ВТЕХ	2								TI	PH ³		
		Sample Depth	Resul	lts	Chloric	de¹											GRO		DRC)	EXT DE	RO	Total TPH
Sample ID	Sample Date		Chloride	PID			Benze	ne	Tolue	ne	Ethylben	zene	Total Xyl	enes	Total BTE	X	C ₆ - C	10	> C ₁₀ -	C ₂₈	> C ₂₈ - (C ₃₆	(GRO+DRO+EXT DRO)
		feet bgs	ppm	n	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
ESW-18	3/23/2023	1			48.0		< 0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
ESW-19	3/23/2023	1			16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		35.9		21.9		57.8
ESW-20	3/23/2023	1			80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
ESW-21	3/23/2023	1			592.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SSW-1	3/24/2023	1			48.0		<0.050		<0.050		<0.050		< 0.150		< 0.300		<10.0		<10.0		<10.0		<30
SSW-2	3/24/2023	1			48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SSW-3	3/24/2023	1			80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		10.9		<10.0		10.9
SSW-4	3/24/2023	1			32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SSW-5	3/24/2023	1			32.0		<0.050		<0.050		< 0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SSW-6	3/24/2023	1			48		<0.050		<0.050		<0.050		<0.150		< 0.300		<10.0		<10.0		<10.0		<30
WSW-1	3/16/2023	1			32.0		<0.050		<0.050		< 0.050		< 0.150		< 0.300		<10.0		<10.0		<10.0		<30
WSW-2	3/16/2023	1			32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
WSW-3	3/16/2023	1			48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
WSW-4	3/20/2023	1			144.0		<0.050		<0.050		<0.050		<0.150		<0.300		32.5		<10.0		63.4		95.9
WSW-5	3/20/2023	1			48.0		<0.050		<0.050		<0.050		< 0.150		< 0.300		<10.0		<10.0		<10.0		<30
WSW-6	3/21/2023	1			<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
WSW-7	3/21/2023	1			32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
WSW-8	3/21/2023	1			32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
WSW-9	3/22/2023	1			48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
WSW-10	3/22/2023	1			48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
WSW-11	3/22/2023	1			16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
WSW-12	3/22/2023	1			112.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		221		172		393
WSW-12-A	3/24/2023	1			16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
WSW-13	3/22/2023	1			144.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		161		106		267
WSW-13-A	3/24/2023	1			64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		108		71.9		179.9
WSW-13-B	3/28/2023	1			32.0		< 0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
WSW-14	3/23/2023	1			160.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		511		281		792
WSW-14-A	3/24/2023	1			80.0		<0.050		<0.050		<0.050		< 0.150		<0.300		<10.0		<10.0		<10.0		<30
WSW-15	3/23/2023	1			48.0		<0.050		<0.050		<0.050		< 0.150		<0.300		<10.0		50.6		31.4		82
WSW-16	3/23/2023	1			32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
WSW-17	3/23/2023	1			48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
WSW-18	3/23/2023	1			160.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
WSW-19	3/23/2023	1			48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
WSW-20	3/23/2023	1			144.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
WSW-21	3/24/2023	1			32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30

NOTES:

bgs: Below ground surface mg/kg: Milligrams per kilogram

TPH: Total Petroleum Hydrocarbons

GRO: Gasoline range organics

DRO: Diesel range organics

1: Method SM4500Cl-B

2: Method 8021B3: Method 8015M

Bold values indicate exceedance of Remediation Reclamation Requirements (NMAC 19.15.29.13)

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

May 16, 2023

APPENDIX A: C-141 FORM NRM1930950727

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	NRM1930950727
District RP	1RP-5779
Facility ID	fCOH0815142265
Application ID	pRM1930950218

Release Notification

Responsible Party

		coPhillips Com	npany		OGRID 2							
Contact Nam	ne Gustav	o Fejervary			Contact Te	Telephone 432/210-7037						
Contact ema	^{il} g.fejerva	ary@cop.com			Incident #	# (assigned by OCD)						
Contact mail	ing address	5735 SV	V 7000 Andrew	vs, TX 7	79714							
			Location	of Re	lease So	Source						
Latitude 32	80360		(NAD 83 in de	L ecimal degre	ongitude _ ees to 5 decim	-103.77100 imal places)						
Site Name N	1CA-2C Ir	njection Heade	er		Site Type	Injection Header						
Date Release	Discovered	10/2/19			API# (if app							
Unit Letter	Section	Township	Range		Coun	inty						
J	28	17S	R32E	Lea	•							
						ic justification for the volumes provided below)						
Crude Oi	1	Volume Release	^{d (bbls)} 12.3			Volume Recovered (bbls) 1						
✓ Produced	Water	Volume Release	^{d (bbls)} 110.7			Volume Recovered (bbls) 7						
			ion of total dissol water >10,000 mg		ls (TDS)	☐ Yes ☐ No						
Condensa	ite	Volume Release	d (bbls)			Volume Recovered (bbls)						
Natural G	ias	Volume Release	d (Mcf)			Volume Recovered (Mcf)						
Other (de	scribe)	Volume/Weight	Released (provide	le units)		Volume/Weight Recovered (provide units)						
Cause of Rel	^{ease} Gaske	et on the Heade	er leaked on th	ne flange	e valve.	<u>'</u>						

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Incident ID	NRM1930950727
District RP	1RP-5779
Facility ID	fCOH0815142265
Application ID	pRM1930950218

		Application ID	pRM1930950218	
		Application 1D	pRIVI1930930216	
Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider th	is a major release?		
19.15.29.7(A) NMAC?	it was more than 25 bbls.			
✓ Yes ☐ No	((40'X50X2")+(450'X7'X3")+(118'X100'X4"))X13.57%	6= 123BBLS		
	13.57%= SOIL SATURATION AFTER 0.5" RAIN IN	LAST 24 HRS		
If YES, was immediate no	notice given to the OCD? By whom? To whom? When and by wh	nat means (phone, er	nail, etc)?	
It was given on 10/3	3/19 to district 1 email address and Bradford Billing	js		
	Initial Response			
The responsible	party must undertake the following actions immediately unless they could create a	safety hazard that would	! result in injury	
✓ The source of the rele	ease has been stopped.			
	as been secured to protect human health and the environment.			
Released materials ha	ave been contained via the use of berms or dikes, absorbent pads, o	or other containment	t devices.	
All free liquids and recoverable materials have been removed and managed appropriately.				
If all the actions described	ed above have <u>not</u> been undertaken, explain why:			
has begun, please attach	MAC the responsible party may commence remediation immediately a narrative of actions to date. If remedial efforts have been succent area (see 19.15.29.11(A)(5)(a) NMAC), please attach all informations.	essfully completed	or if the release occurred	
regulations all operators are public health or the environr	primation given above is true and complete to the best of my knowledge and required to report and/or file certain release notifications and perform comment. The acceptance of a C-141 report by the OCD does not relieve the case and remediate contamination that pose a threat to groundwater, surface	rective actions for rele operator of liability sh	eases which may endanger ould their operations have	

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

Date:

Environmental Coordinator

10/11/19

432/210-7037

 OCD Only

 Received by: Ramona Marcus

 Date: 11/5/2019

Gustavo Fejervary

and/or regulations.

Printed Name:

Signature:

Received by OCD: 6/6/2023 9:22:27 AM State of New Mexico
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Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

 $This information \ must \ be \ provided \ to \ the \ appropriate \ district \ of fice \ no \ later \ than \ 90 \ days \ after \ the \ release \ discovery \ date.$

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)		
Did this release impact groundwater or surface water?	☐ Yes ☐ No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Yes No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No		
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No		
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No		
Are the lateral extents of the release within a 100-year floodplain?			
Did the release impact areas not on an exploration, development, production, or storage site?			
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: 6/6/2023 9:22:27 AM State of New Mexico
Page 4 Oil Conservation Division

1 480 02 01 120	Page	32	of 4	25
-----------------	------	----	------	----

Incident ID		
District RP		
Facility ID		
Application ID		

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

Received by OCD: 6/6/2023 9:22:27 AMI State of New Mexico Oil Conservation Division Page 5

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Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	included in the plan.
☐ Detailed description of proposed remediation technique ☐ Scaled sitemap with GPS coordinates showing delineation 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 times)	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.
Contamination must be in areas immediately under or around predeconstruction.	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.
I hereby certify that the information given above is true and complet rules and regulations all operators are required to report and/or file of which may endanger public health or the environment. The acceptantiability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local leads to the compliance with any other federal, state, or local leads to the compliance with any other federal, state, or local leads to the compliance with any other federal, state, or local leads to the compliance with any other federal, state, or local leads to the compliance with any other federal, state, or local leads to the compliance with any other federal, state, or local leads to the compliance with any other federal, state, or local leads to the compliance with any other federal, state, or local leads to the compliance with any other federal state, or local leads to the compliance with any other federal state, or local leads to the compliance with any other federal state, or local leads to the compliance with any other federal state, or local leads to the compliance with any other federal state, or local leads to the compliance with any other federal state, or local leads to the compliance with any other federal state, or local leads to the compliance with any other federal state, or local leads to the compliance with any other federal state, or local leads to the compliance with any other federal state, or local leads to the complex state and the complex states are complex to the complex states.	ertain release notifications and perform corrective actions for releases are of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
Approved	Approval
Signature:	Date:

Received by OCD: 6/6/2023 9:22:27 AM State of New Mexico
Page 6 Oil Conservation Division

Incident ID
District RP
Facility ID
Application ID

Closure

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

Closure Report Attachment Checklist: Each of the following it	tems must be included in the closure report.
☐ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and renhuman health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the coraccordance with 19.15.29.13 NMAC including notification to the O	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in DCD when reclamation and re-vegetation are complete. Title:
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	

May 16, 2023

APPENDIX B: C-141 FORM NAPP2117456525

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party OGRID						
Contact Name Contact T			Telephone	elephone		
Contact email Incident #			t # (assigned by OCD	(assigned by OCD)		
Contact mail	ing address			'		
					~	
			Location	of Release	Source	
Latitude				Longitud	e	
			(NAD 83 in dec	cimal degrees to 5 de	ecimal places)	
Site Name				Site Typ	e	
Date Release	Discovered			API# (if	applicable)	
Unit Letter	Section	Township	Range	Co	ounty	
Ont Letter	Section	Township	Runge		, unity	-
						_
Surface Owner	r: State	☐ Federal ☐ Tr	ribal Private (I	Name:)
			Nature and	d Volume o	f Release	
Crude Oil		l(s) Released (Select al Volume Release		calculations or spec	Volume Reco	e volumes provided below) overed (bbls)
Produced	Water	` '		Volume Reco	• • •	
	Is the concentration of dissolved chloride in the		chloride in the		☐ Yes ☐ No	
	produced water >10,000 mg/l?					
Condensa:	Condensate Volume Released (bbls)			Volume Reco	Volume Recovered (bbls)	
Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units)		e units)	Volume/Weight Recovered (provide units)			
Cause of Rele	ease					

Pag

	Page	37 of	420
ID			

ceivea by OCD: 6/6/2023	State of New Mexico		Page 3/0f 4
1111 C-1 4 1		Incident ID	
ge 2	Oil Conservation Division	District RP	
		Facility ID	
		Application ID	
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible pa	arty consider this a major release?	

☐ Yes ☐ No		
If YES, was immediate no	otice given to the OCD? By whom? To who	m? When and by what means (phone, email, etc)?
,	,	, , , , ,
	Initial Res	sponse
The responsible p	party must undertake the following actions immediately t	unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
☐ The impacted area ha	as been secured to protect human health and th	e environment.
Released materials ha	ave been contained via the use of berms or dik	es, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and a	managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain wh	ny:
Per 19 15 29 8 B (4) NM	IAC the responsible party may commence ren	pediation immediately after discovery of a release. If remediation
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.		
		st of my knowledge and understand that pursuant to OCD rules and
public health or the environment	ment. The acceptance of a C-141 report by the OC	ations and perform corrective actions for releases which may endanger D does not relieve the operator of liability should their operations have
		to groundwater, surface water, human health or the environment. In sponsibility for compliance with any other federal, state, or local laws
and/or regulations.	The Control of the Co	pointing for compliance with any calci reactar, state, or recar tame
Printed Name:		Title:
Signature: Kelyling		Date:
l v		Telephone:
OCD Only		
Received by: _Ramona M	Marcus	Date: _6/28/2021

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

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

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

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

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

CONDITIONS

Action 33424

CONDITIONS

Operator:	OGRID:
CONOCOPHILLIPS COMPANY	217817
600 W. Illinois Avenue	Action Number:
Midland, TX 79701	33424
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	6/28/2021

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Page 3 Oil Conservation Division

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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.

(ft bgs)		
☐ Yes ☐ No		
Yes No		
☐ Yes ☐ No		
☐ Yes ☐ No		
☐ Yes ☐ No		
☐ Yes ☐ No		
☐ Yes ☐ No		
☐ Yes ☐ No		
☐ Yes ☐ No		
☐ Yes ☐ No		
☐ Yes ☐ No		
☐ 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.		
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 ⅓-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.

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				i

Incident ID	
District RP	
Facility ID	
Application ID	

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

Received by OCD: 6/6/2023 9:22:27 AM State of New Mexico
Page 5 Oil Conservation Division

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tion Division

Incident ID
District RP
Facility ID

Application ID

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	included in the plan.	
Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)		
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation	
Deterral requests Only. Each of the following tiems must be con-	firmed as part of any request for deferral of remediation.	
Contamination must be in areas immediately under or around predeconstruction.	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.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name:	Title:	
Signature:	Date:	
email:	Telephone:	
OCD Only		
<u>OCD OILLY</u>		
Received by:	Date:	
Approved	Approval	
Signature: Chad Hend	Date:	

Received by OCD: 6/6/2023 9:22:27 AM State of New Mexico
Page 6 Oil Conservation Division

Incident ID
District RP
Facility ID
Application ID

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.		
☐ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC	
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office	
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)	
☐ Description of remediation activities		
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and renhuman health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the coraccordance with 19.15.29.13 NMAC including notification to the O	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete. Title:	
OCD Only		
Received by:	Date:	
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.	
Closure Approved by:	Date:	
Printed Name:	Title:	

May 16, 2023

Site Remediation Closure Report
Maverick Permian, LLC
MCA 2C Injection Header Flange and Header East Line Releases
Incident IDs: nRM1930950727 and nAPP2117456525

APPENDIX C: SITE CHARACTERIZATION DATA



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

(NAD83 UTM in meters)

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(In feet)

	POD Sub-		Q	Q C)						Depth	Depth	Water
POD Number	Code basin	County	64	16 4	Sec	Tws	Rng	X	Y	Distance	Well	Water	Column
RA 12721 POD2	RA	LE	1	1 4	1 28	17S	32E	615055	3630407 🌑	256	124	75	49
RA 12721 POD3	RA	LE	2	3 4	1 28	17S	32E	615417	3629979 🌑	304	115		
RA 12721 POD5	RA	LE	2	4 4	1 28	17S	32E	615650	3629961 🌍	502	130	124	6
RA 12721 POD1	RA	LE	3	2 3	3 28	17S	32E	614645	3630141 🌍	565	125		
RA 12721 POD4	RA	LE	1	1 2	2 33	17S	32E	615055	3629589 🌕	628	140		

Average Depth to Water: 99 feet

Minimum Depth: 75 feet

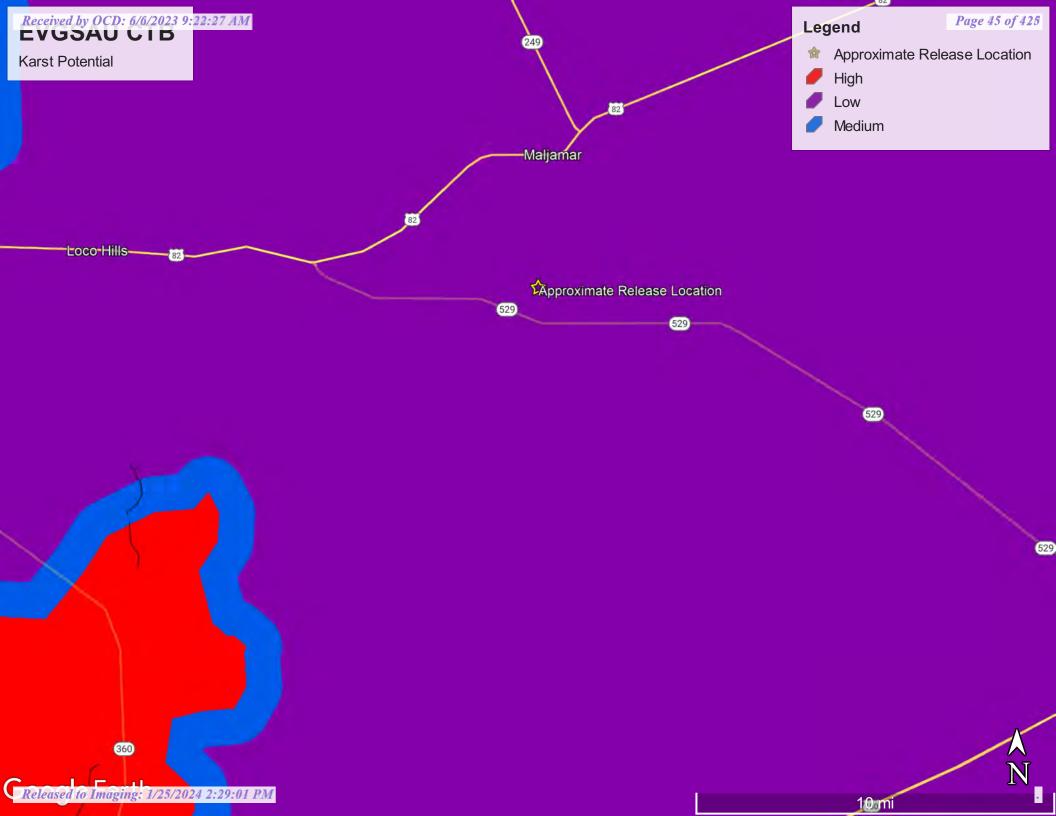
Maximum Depth: 124 feet

Record Count: 5

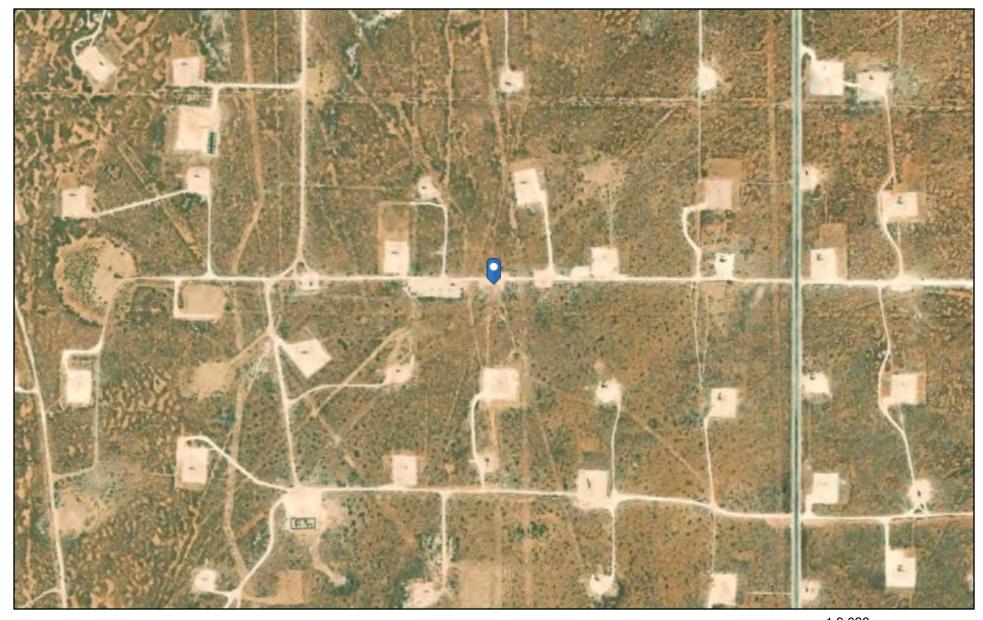
UTMNAD83 Radius Search (in meters):

Easting (X): 615207 **Northing (Y):** 3630200 **Radius:** 800

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.



OCD Water Bodies



2/22/2022, 4:14:57 PM

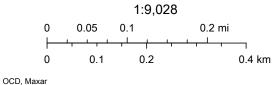
★ OCD District Offices

es 📖

PLJV Probable Playas

OSE Water-bodies

OSE Streams



New Mexico Oil Conservation Division

Site Remediation Closure Report
Maverick Permian, LLC
MCA 2C Injection Header Flange and Header East Line Releases
Incident IDs: nRM1930950727 and nAPP2117456525

May 16, 2023

APPENDIX D: LABORATORY ANALYTICAL DATA

APPENDIX D Laboratory Analytical Data

Part 1
Shallow and Deep Soil Assessments
nRM1930950727

Part 2 Shallow and Deep Soil Assessments nAPP2117456525

Part 3
Confirmation Soil Samples
nRM1930950727 and nAPP2117456525

APPENDIX D Laboratory Analytical Data

Part 1
Shallow and Deep Soil Assessments
nRM1930950727



October 30, 2019

JUSTIN WRIGHT

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: MCA 2C HEADER

Enclosed are the results of analyses for samples received by the laboratory on 10/25/19 11:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



10/23/2019

Analytical Results For:

Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 10/25/2019 Sampling Date:

Reported: 10/30/2019 Sampling Type: Soil

Project Name: MCA 2C HEADER Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COPC -LEA COUNTY NM

Sample ID: SP #1 - SURFACE (H903659-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16000	16.0	10/28/2019	ND	416	104	400	0.00	
Sample ID: SP #1 - 2' (H	903659-02)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	32.0	16.0	10/28/2019	ND	416	104	400	0.00	
Chloride	5	20.0	-5, -5, -5-5						
Sample ID: SP #2 - SURF		59-03)		d By: AC					
Sample ID: SP #2 - SURF	FACE (H90365	59-03)			BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: SP #2 - SURF	FACE (H90365 mg,	5 9-03) /kg	Analyze	d By: AC	BS 416	% Recovery	True Value QC 400	RPD 0.00	Qualifier
Sample ID: SP #2 - SURF Chloride, SM4500Cl-B Analyte	FACE (H90365 mg Result 864	59-03) / kg Reporting Limit	Analyze Analyzed	d By: AC Method Blank		,	•		Qualifier
Sample ID: SP #2 - SURF Chloride, SM4500CI-B Analyte Chloride	FACE (H90365 mg Result 864	Reporting Limit	Analyzed Analyzed 10/28/2019	d By: AC Method Blank		,	•		Qualifier
Sample ID: SP #2 - SURF Chloride, SM4500CI-B Analyte Chloride Sample ID: SP #2 - 2' (He)	Result 864	Reporting Limit	Analyzed Analyzed 10/28/2019	d By: AC Method Blank ND		,	•		Qualifier

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

 Received:
 10/25/2019
 Sampling Date:
 10/23/2019

 Reported:
 10/30/2019
 Sampling Type:
 Soil

Project Name: MCA 2C HEADER Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COPC -LEA COUNTY NM

Sample ID: SP #3 - SURFACE (H903659-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	27600	16.0	10/28/2019	ND	416	104	400	0.00	
Sample ID: SP #3 - 2' (F	1903659-06)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/28/2019	ND	416	104	400	0.00	
Sample ID: SP #4 - SUR	FACE (H90365	59-07)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/28/2019	ND	416	104	400	0.00	
Sample ID: SP #4 - 2' (F	1903659-08)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	10/28/2019	ND	416	104	400	0.00	
Sample ID: SP #5 - SUR	FACE (H90365	59-09)							
Chloride, SM4500Cl-B	=	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/29/2019	ND	416	104	400	3.92	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 10/25/2019 Sampling Date: 10/23/2019

Reported: 10/30/2019 Sampling Type: Soil

Project Name: MCA 2C HEADER Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COPC -LEA COUNTY NM

Sample ID: SD #E - 2' (H0026E0-10)

Result 224 (H90365	Reporting Limit	Analyzed 10/29/2019	Method Blank ND	BS 416	% Recovery	True Value QC 400	RPD 3.92	Qualifier
		10/29/2019	ND	416	104	400	3.92	
(H90365								
(9-11)							
mg/	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
32.0	16.0	10/29/2019	ND	416	104	400	3.92	
	Result	32.0 16.0	Result Reporting Limit Analyzed 32.0 16.0 10/29/2019	Result Reporting Limit Analyzed Method Blank 32.0 16.0 10/29/2019 ND	Result Reporting Limit Analyzed Method Blank BS 32.0 16.0 10/29/2019 ND 416	Result Reporting Limit Analyzed Method Blank BS % Recovery 32.0 16.0 10/29/2019 ND 416 104	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 32.0 16.0 10/29/2019 ND 416 104 400	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 32.0 16.0 10/29/2019 ND 416 104 400 3.92

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #7 - SURFACE (H903659-13)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #7 - 2' (H903659-14)

Chloride, SM4500Cl-B	mg	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8640	16.0	10/29/2019	ND	416	104	400	3.92	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 10/25/2019 Sampling Date: 10/23/2019

Reported: 10/30/2019 Sampling Type: Soil
Project Name: MCA 2C HEADER Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COPC -LEA COUNTY NM

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	10/29/2019	ND	416	104	400	3.92	
Sample ID: SP #8 - 2' (H903659-16)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
			10/20/2010	ND	41.0	104	400	3.92	
Chloride	800	16.0	10/29/2019	ND	416	104	400	3.92	
Chloride Sample ID: SP #9 - SUI			10/29/2019	ND	416	104	400	3.52	
		5 9-17)		ND d By: AC	416	104	400	3.92	
Sample ID: SP #9 - SU	RFACE (H90365	5 9-17)			8S	% Recovery	True Value QC	RPD	Qualifier
Sample ID: SP #9 - SUI Chloride, SM4500CI-B	RFACE (H90365	5 9-17) /kg	Analyze	d By: AC					Qualifier
Sample ID: SP #9 - SUI Chloride, SM4500CI-B Analyte	RFACE (H90365 mg Result 12800	59-17) /kg Reporting Limit	Analyze Analyzed	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: SP #9 - SUI Chloride, SM4500CI-B Analyte Chloride Sample ID: SP #9 - 2' (RFACE (H90365 mg Result 12800	Reporting Limit	Analyze Analyzed	d By: AC Method Blank ND	BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: SP #9 - SUI Chloride, SM4500CI-B Analyte Chloride	RFACE (H90365 mg Result 12800 H903659-18)	Reporting Limit	Analyzed 10/29/2019	d By: AC Method Blank ND	BS	% Recovery	True Value QC	RPD	Qualifier

Sample ID: SP #10 - SURFACE (H903659-19)

	(,							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7040	16.0	10/29/2019	ND	416	104	400	3.92	

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Celey D. Keine



Analytical Results For:

Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 10/25/2019 Sampling Date: 10/23/2019

Reported: 10/30/2019 Sampling Type: Soil

Project Name: MCA 2C HEADER Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COPC -LEA COUNTY NM

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/29/2019	ND	416	104	400	3.92	
Sample ID: SP #11 - SU	RFACE (H9036	559-21)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
					44.6	104	400	2.02	
	1890 H903659-22\	16.0	10/29/2019	ND	416	104	400	3.92	
Chloride Sample ID: SP #11 - 2' (10/29/2019	ND	416	104	400	3.92	
				ND d By: AC	416	104	400	3.92	
Sample ID: SP #11 - 2' (H903659-22)				416 BS	% Recovery	True Value QC	3.92 RPD	Qualifier
Sample ID: SP #11 - 2' (Chloride, SM4500CI-B	H903659-22)	/kg	Analyze	d By: AC					Qualifier
Sample ID: SP #11 - 2' (Chloride, SM4500Cl-B Analyte	(H903659-22) mg, Result 16.0	/kg Reporting Limit 16.0	Analyze Analyzed	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: SP #11 - 2' (Chloride, SM4500CI-B Analyte Chloride	(H903659-22) mg, Result 16.0	Reporting Limit 16.0 559-23)	Analyzed 10/29/2019	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: SP #11 - 2' (Chloride, SM4500Cl-B Analyte Chloride Sample ID: SP #12 - SU	Result 16.0	Reporting Limit 16.0 559-23)	Analyzed 10/29/2019	d By: AC Method Blank ND	BS	% Recovery	True Value QC	RPD	Qualifier

Sample ID: SP #12 - 2' (H903659-24)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/29/2019	ND	416	104	400	3.92	

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Analytical Results For:

Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 10/25/2019 Sampling Date: 10/23/2019

Reported: 10/30/2019 Sampling Type: Soil

Project Name: MCA 2C HEADER Sampling Condition: Cool & Intact Project Number: Tamara Oldaker NONE GIVEN Sample Received By:

Project Location: COPC -LEA COUNTY NM

Sample ID: SP #13 - SUR	FACE (H9036	559-25)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/29/2019	ND	416	104	400	3.92	
Sample ID: SP #13 - 2' (H	1903659-26)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/29/2019	ND	416	104	400	3.92	
Sample ID: SP #14 - SUR	FACE (H9036	559-27)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #14 - 2' (H903659-28)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #15 - SURFACE (H903659-29)

Chloride, SM4500Cl-B	SM4500CI-B mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	34000	16.0	10/29/2019	ND	416	104	400	0.00	QM-07

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Analytical Results For:

Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 10/25/2019 Sampling Date: 10/23/2019

Reported: 10/30/2019 Sampling Type: Soil Project Name: MCA 2C HEADER Sampling Condition:

Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: COPC -LEA COUNTY NM

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/29/2019	ND	416	104	400	0.00	
Sample ID: SP #16 - SUF	RFACE (H9036	59-31)							
Chloride, SM4500CI-B	oride, SM4500Cl-B mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
					44.6	101	400	0.00	
	18400 H903659-32)	16.0	10/29/2019	ND	416	104	400	0.00	
Sample ID: SP #16 - 2' (Н903659-32)				416	104	400	0.00	
Sample ID: SP #16 - 2' (Chloride, SM4500Cl-B	H903659-32)	/kg	Analyze	d By: AC					Qualifier
Sample ID: SP #16 - 2' (I Chloride, SM4500Cl-B Analyte	H903659-32) mg , Result	/kg Reporting Limit	Analyze Analyzed	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: SP #16 - 2' (Inchine the Chloride, SM4500Cl-B Analyte	H903659-32)	/kg	Analyze	d By: AC					Qualifier
Sample ID: SP #16 - 2' (Chloride, SM4500Cl-B	H903659-32) mg, Result 656	Reporting Limit	Analyze Analyzed	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: SP #16 - 2' (I Chloride, SM4500CI-B Analyte Chloride	H903659-32) mg, Result 656	Reporting Limit 16.0 59-33)	Analyzed 10/29/2019	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: SP #16 - 2' (Inchioride, SM4500CI-B Analyte Chloride Sample ID: SP #17 - SUF	H903659-32) mg, Result 656 RFACE (H9036	Reporting Limit 16.0 59-33)	Analyzed 10/29/2019	d By: AC Method Blank ND	BS	% Recovery	True Value QC	RPD	Qualifier

Sample ID: SP #17 - 2' (H903659-34)

Chloride, SM4500Cl-B	ride, SM4500Cl-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/29/2019	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240 Fax To: (575) 297-1477

(0.0) --- --

 Received:
 10/25/2019
 Sampling Date:
 10/23/2019

 Reported:
 10/30/2019
 Sampling Type:
 Soil

Project Name: MCA 2C HEADER Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COPC -LEA COUNTY NM

Sample ID: SP #18 - SURFACE (H903659-35)

Sumple IDI Si #10 Soi	OIII ACE (11303003 55)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14600	16.0	10/29/2019	ND	416	104	400	0.00	
Sample ID: SP #18 - 2' (H903659-36)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #19 - SURFACE (H903659-37)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8130	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #19 - 2' (H903659-38)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #20 - SURFACE (H903659-39)

Chloride, SM4500Cl-B	` mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	10/29/2019	ND	416	104	400	0.00	

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Analytical Results For:

Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 10/25/2019 Sampling Date: 10/23/2019

Reported: 10/30/2019 Sampling Type: Soil

Project Name: MCA 2C HEADER Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: COPC -LEA COUNTY NM

Chloride, SM4500Cl-B	mg	/ka	Analyze	d By: AC					
	9/	, ng	Allaryze	u 5,1 AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	10/29/2019	ND	416	104	400	0.00	
Sample ID: SP #21 - SUR	FACE (H9036	559-41)							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
					44.5	404	400	0.00	
Chloride	896	16.0	10/29/2019	ND	416	104	400	0.00	
Sample ID: SP #21 - 2' (I	1903659-42)				416	104	400	0.00	
Sample ID: SP #21 - 2' (K				ND d By: AC	416	104	400	0.00	
Sample ID: SP #21 - 2' (K	1903659-42)				416 BS	104 % Recovery	400 True Value QC	RPD	Qualifier
Sample ID: SP #21 - 2' (I Chloride, SM4500CI-B Analyte	1903659-42) mg,	/kg	Analyze	d By: AC					Qualifier
Chloride Sample ID: SP #21 - 2' (Formula	H903659-42) mg, Result 64.0	/kg Reporting Limit 16.0	Analyze Analyzed	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: SP #21 - 2' (FChloride, SM4500CI-B Analyte Chloride Sample ID: SP #22 - SUR	H903659-42) mg, Result 64.0	Reporting Limit 16.0 559-43)	Analyzed 10/29/2019	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: SP #21 - 2' (FChloride, SM4500CI-B Analyte Chloride	H903659-42) mg, Result 64.0	Reporting Limit 16.0 559-43)	Analyzed 10/29/2019	d By: AC Method Blank ND	BS	% Recovery	True Value QC	RPD	Qualifier

Sample ID: SP #22 - 2' (H903659-44)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1730	16.0	10/29/2019	ND	416	104	400	0.00	

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Analytical Results For:

Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 10/25/2019 Sampling Date: 10/23/2019

Reported: 10/30/2019 Sampling Type: Soil

Project Name: MCA 2C HEADER Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COPC -LEA COUNTY NM

Sample ID: SP #23 - SURFACE (H903659-45)

Chloride, SM4500Cl-B	, SM4500Cl-B mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #23 - 2' (H903659-46)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #24 - SURFACE (H903659-47)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #24 - 2' (H903659-48)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #25 - SURFACE (H903659-49)

Chloride, SM4500CI-B	` mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/30/2019	ND	400	100	400	3.92	

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Analytical Results For:

Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 10/25/2019 Sampling Date: 10/23/2019

Reported: 10/30/2019 Sampling Type: Soil

Project Name: MCA 2C HEADER Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COPC -LEA COUNTY NM

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride 4		16.0	10/30/2019	ND	400	100	400	3.92	
Sample ID: SP #26 - SU	RFACE (H9036	559-51)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	640	16.0	10/30/2019	ND	400	100	400	3.92	
Sample ID: SP #26 - 2' ((H903659-52)								
	ma	/kg	Analyze	d By: AC					
Chloride, SM4500Cl-B	ilig	, <u>9</u>							
•	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie

Chloride, SM4500CI-B	` mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #27 - 2' (H903659-54)

Chloride, SM4500Cl-B	mg,	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/30/2019	ND	400	100	400	3.92	

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Celey D. Keine



Analytical Results For:

Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 10/25/2019 Sampling Date: 10/23/2019

Reported: 10/30/2019 Sampling Type: Soil

Project Name: MCA 2C HEADER Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COPC -LEA COUNTY NM

Sample ID: SP #28 - SU	RFACE (H9036	559-55)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	10/30/2019	ND	400	100	400	3.92	
Sample ID: SP #28 - 2' ((H903659-56)	ı							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	10/30/2019	ND	400	100	400	3.92	
Sample ID: SP #29 - SU	RFACE (H9036	559-57)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/30/2019	ND	400	100	400	3.92	
Sample ID: SP #29 - 2' (H903659-58)	ı							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Δnalvte	Result	Reporting Limit	Analyzed	Method Blank	RS	% Recovery	True Value OC	RPD	Qualifier

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #30 - SURFACE (H903659-59)

Chloride, SM4500Cl-B	Chloride, SM4500Cl-B mg/kg								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/30/2019	ND	400	100	400	3.92	

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Analytical Results For:

Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 10/25/2019 Sampling Date: 10/23/2019

Reported: 10/30/2019 Sampling Type: Soil
Project Name: MCA 2C HEADER Sampling Condition: Cool

Project Name: MCA 2C HEADER Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COPC -LEA COUNTY NM

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2520	16.0	10/30/2019	ND	400	100	400	3.92	
Sample ID: SP #31 - SU	RFACE (H9036	559-61)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	32.0 (H903659-62)	16.0	10/30/2019	ND	400	100	400	3.92	
Chloride Sample ID: SP #31 - 2' (H903659-62)				400	100	400	3.92	
Sample ID: SP #31 - 2' (Chloride, SM4500CI-B	H903659-62)	/kg	Analyze	d By: AC					
Sample ID: SP #31 - 2' (H903659-62)				400 BS	100 % Recovery	400 True Value QC	3.92	Qualifier
Sample ID: SP #31 - 2' (Chloride, SM4500CI-B	H903659-62)	/kg	Analyze	d By: AC					Qualifier
Sample ID: SP #31 - 2' (Chloride, SM4500Cl-B Analyte	(H903659-62) mg, Result 208	/kg Reporting Limit 16.0	Analyze Analyzed	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: SP #31 - 2' (Chloride, SM4500CI-B Analyte Chloride	(H903659-62) mg, Result 208	Reporting Limit 16.0 559-63)	Analyzed 10/30/2019	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: SP #31 - 2' (Chloride, SM4500Cl-B Analyte Chloride Sample ID: SP #32 - SU	Result 208	Reporting Limit 16.0 559-63)	Analyzed 10/30/2019	d By: AC Method Blank ND	BS	% Recovery	True Value QC	RPD	Qualifier

Sample ID: SP #32 - 2' (H903659-64)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/30/2019	ND	400	100	400	3.92	

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Analytical Results For:

Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 10/25/2019 Sampling Date: 10/23/2019

Reported: 10/30/2019 Sampling Type: Soil

Project Name: MCA 2C HEADER Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COPC -LEA COUNTY NM

Sample ID: SP #33 - SURFACE (H903659-65)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3560	16.0	10/30/2019	ND	400	100	400	3.92	
Sample ID: SP #33 - 2' (I	н903659-66)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	10/30/2019	ND	400	100	400	3.92	
Sample ID: SP #34 - SUR	-	5 59-67) /kg	Analyze	ed By: AC					
·			<u> </u>						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	10/30/2019	ND	400	100	400	3.92	
Sample ID: SP #34 - 2' (I	H903659-68)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	10/30/2019	ND	400	100	400	3.92	
Sample ID: SP #35 - SUR	RFACE (H9036	559-69)							
Chloride, SM4500CI-B	-	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/30/2019	ND	432	108	400	3.77	

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Analytical Results For:

Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 10/25/2019 Sampling Date: 10/23/2019

Reported: 10/30/2019 Sampling Type: Soil

Project Name: MCA 2C HEADER Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COPC -LEA COUNTY NM

Sample ID: SP #35 - 2' (H903659-70)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	10/30/2019	ND	432	108	400	3.77	
Sample ID: SP #36 - SUR	FACE (H9036	559-71)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	10/30/2019	ND	432	108	400	3.77	
Sample ID: SP #36 - 2' (I	•	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	10/30/2019	ND	432	108	400	3.77	
Sample ID: SP #37 - SUR	FACE (H9036	559-73)							
Chloride, SM4500CI-B	- mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8260	16.0	10/30/2019	ND	432	108	400	3.77	
Sample ID: SP #37 - 2' (I	1903659-74)								
Chloride, SM4500Cl-B	-	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	10/30/2019	ND	432	108	400	3.77	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

 Received:
 10/25/2019
 Sampling Date:
 10/23/2019

 Reported:
 10/30/2019
 Sampling Type:
 Soil

Reported: 10/30/2019 Sampling Type: Soil

Project Name: MCA 2C HEADER Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COPC -LEA COUNTY NM

Sample ID: SP #38 - SURFACE (H903659-75)

mg/kg	Analyze	d By: AC					
t Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
16.0	10/30/2019	ND	432	108	400	3.77	
6)							
ng/kg	Analyze	d By: AC					
t Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
16.0	10/30/2019	ND	432	108	400	3.77	
3659-77)							
ng/kg	Analyze	d By: AC					
t Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
16.0	10/30/2019	ND	432	108	400	3.77	
8)							
ng/kg	Analyze	d By: AC					
t Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
16.0	10/30/2019	ND	432	108	400	3.77	
3659-79)							
3659-79) _{mg/kg}	Analyze	d By: AC					
-	Analyze Analyzed	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
it o	Reporting Limit 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0	the Reporting Limit Analyzed 16.0 10/30/2019 76) mg/kg Analyze the Reporting Limit Analyzed 3 16.0 10/30/2019 33659-77) mg/kg Analyze the Reporting Limit Analyzed 4 16.0 10/30/2019 78) mg/kg Analyze the Reporting Limit Analyzed 4 16.0 10/30/2019	It Reporting Limit Analyzed Method Blank 16.0 10/30/2019 ND 76) mg/kg Analyzed By: AC It Reporting Limit Analyzed Method Blank 3 16.0 10/30/2019 ND 78 Malyzed By: AC It Reporting Limit Analyzed Method Blank 16.0 10/30/2019 ND 78 Method Blank 16.0 10/30/2019 ND	It Reporting Limit Analyzed Method Blank BS 16.0 10/30/2019 ND 432 76) mg/kg Analyzed By: AC It Reporting Limit Analyzed Method Blank BS 16.0 10/30/2019 ND 432 78) Mathod Blank BS 16.0 10/30/2019 ND 432 78 The Reporting Limit Analyzed By: AC The Reporting Limit Analyzed Method Blank BS The Reporting Limit Analyzed Method Blank BS The Reporting Limit Analyzed Method Blank BS The Reporting Limit Analyzed By: AC The Reporting Limit Analyzed By: AC The Reporting Limit Analyzed By: AC The Reporting Limit Analyzed By: AC	It Reporting Limit Analyzed Method Blank BS % Recovery 16.0 10/30/2019 ND 432 108 76) mg/kg Analyzed By: AC It Reporting Limit Analyzed Method Blank BS % Recovery 3 16.0 10/30/2019 ND 432 108 78 79 79 79 79 79 79 79 79 7	tt Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 16.0 10/30/2019 ND 432 108 400 76) mg/kg Analyzed By: AC It Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 3 16.0 10/30/2019 ND 432 108 400 76) True Value QC 77) Mg/kg Analyzed By: AC True Value QC 78 79 70 70 70 70 70 70 70 70 70	Reporting Limit

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 10/25/2019 Sampling Date: 10/23/2019

Reported: 10/30/2019 Sampling Type: Soil
Project Name: MCA 2C HEADER Sampling Condition: Cool

Project Name: MCA 2C HEADER Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COPC -LEA COUNTY NM

Sample ID: SP #40 - 2' (H903659-80)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	10/30/2019	ND	432	108	400	3.77	
Sample ID: SP #41 - SUF	RFACE (H9036	559-81)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/30/2019	ND	432	108	400	3.77	
Sample ID: SP #41 - 2' (H903659-82)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	10/30/2019	ND	432	108	400	3.77	
Sample ID: SP #42 - SUR	RFACE (H9036	559-83)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/30/2019	ND	432	108	400	3.77	
Sample ID: SP #42 - 2' (H903659-84)								
Chloride, SM4500Cl-B	-	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	10/30/2019	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240 Fax To: (575) 297-1477

 Received:
 10/25/2019
 Sampling Date:
 10/23/2019

 Reported:
 10/30/2019
 Sampling Type:
 Soil

Project Name: MCA 2C HEADER Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COPC -LEA COUNTY NM

880

16.0

Sample ID: SP #43 - SURFACE (H903659-85)

Chloride, SM4500CI-B	` mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/30/2019	ND	432	108	400	3.77	
Sample ID: SP #43 - 2' (H903659-86)								
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

432

108

400

3.77

10/30/2019

Sample ID: SP #44 - SURFACE (H903659-87)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1630	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #44 - 2' (H903659-88)

Chloride

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #45 - SURFACE (H903659-89)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1780	16.0	10/30/2019	ND	432	108	400	0.00	QM-07

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Analytical Results For:

Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 10/25/2019 Sampling Date: 10/23/2019

Reported: 10/30/2019 Sampling Type: Soil

Project Name: MCA 2C HEADER Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COPC -LEA COUNTY NM

Sample ID: SP #45 - 2' (H903659-90)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	10/30/2019	ND	432	108	400	0.00	

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Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

Relindus Hed By:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Observed Temp. °C 4,4
Corrected Temp. °C 4,4

Sample Condition
Cool Intact
Pes Pes
No No

CHECKED BY: (Initials)

Turnaround Time:

Standard Rush

Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C

Yes Yes
No Corrected Temp. °C

REMARKS:

d

Thermometer ID #97 Correction Factor + 0.4 °C Time:

Received By:

Received By:

Relinquis

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX (575) 393-2476

company name: conocornilips	1000		ANALYSIS REQUEST
Project Manager: Justin Wright	P.0	P.O. #:	_
Address:	Cor	Company: ConocoPhillips	
City: Hobbs St NM	Zip: # Attn:	n:	
Phone #: 575-631-9092 Fax #:	Ado	Address:	
Project #: Project Owner:	ner: COPC City:	y:	
Project Name: MCA 26 Header	State:	ite: Zip:	
Project Location: Lea County, NM	Pho	Phone #:	
Sampler Name: Justin Wright	Fax#	(#	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER: DATE TIME	Chlorides
SP#1- Surface		* 10-23	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
2 sp#1-2'	۰	* 10-23	<
3 SP#2- Surface	ດ *	* 10-23	,
U SP# 2- 2	۵ *	* 10-23	Y
S SP#3- Surface	ດ *	* 10-33	<
6 SP#3-21	۰ ۲	* 10-23	
7 SPH4-Surface	n *	* 10-23	
8 5P# 4-31	⊕ *	* 10-23	_
9 SPHS-Surface	ัก *	* 10-23	
105745-21	۵ *	* 10-23	

Religious Ked By:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Observed Temp. °C Corrected Temp. °C

Cool Intact

Yes Yes

No No Sample Condition

CHECKED BY: (Initials)

Turnaround Time:

Standard Rush

Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C

Yes Yes
No Corrected Temp. °C

Corrected Temp. °C

Thermometer ID #97 Correction Factor + 0.4 °C

Time:

Received By:

REMARKS:

Received By:

All Results are emailed. Please provide Email address:

☐ Yes

□ No

Add'I Phone #:

Relinquis

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 23 of 30 101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

Company Name: ConocoPhillips	1000	BILL TO	ANALTOIS REQUEST
Project Manager: Justin Wright	P.O.	#	
Address:	Com	Company: ConocoPhillips	
City: Hobbs St NM	Zip: # Attn:		
hone #: 575-631-9092 Fax #:	Add	Address:	
Project #: Project Owner:	wner: COPC City:		
Project Name:	State:	e: Zip:	
Project Location:	Pho	Phone #:	
Sampler Name: Justin Wright	Fax #:	#:	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER: DATE	Chlorides
11 SP#6 - Surface		* 10-13	<
12 sp#6- 2'	o *	* 10-23	_
	o *	* 10-23	
14 SP47-21	o *	* 10-23	~
15 SP#8-Surface	n *	* 10-23	_
16 57 #8-21	۵ *	* 10-33	_
17 SPH9-Surface	۵ *	* /0-23	•
18 SP#9-21	o *	* 10-23	•
1950#10-Surface	o *	* 10-23	*
20 SP#10 - 2'	ត *	* 10-23	*

Rel

induished By:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Observed Temp. °C 4.9 Corrected Temp. °C

4.4

Sample Condition
Cool Intact
Pres Pres
No No No

CHECKED BY: (Initials)

Turnaround Time:

Standard

Corrected Temp. °C

REMARKS:

Time:

Relinquishe

Received By:

All Results are emailed. Please provide Email address:

☐ Yes ☐ No

Add'I Phone #:

Verbal Result:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX (575) 393-2476

Company Name: ConocoPhillips		BILL TO	ANALYSIS REQUEST
Project Manager: Justin Wright	P.O. #:		
Address:	Company:	y: ConocoPhillips	
City: Hobbs St NM	Zip: # Attn:		
Phone #: 575-631-9092 Fax #:	Address:	y :	
Project #: Project Owner:	wner: COPC City:		
Project Name: M.A. 20 Header	State:	Zip:	
Project Location: /pg (gunty NM)	Phone #	J.T	
Sampler Name: Justin Wright	Fax #:		
	MATRIX PRESERV	SERV. SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL	OTHER:	Chlorides
21 SPHIL- SURFACE	⊕	* 10-23	<
<u>y</u>	a	* 10.23	<
20 SP #12- Surface	ο *		<
SP#12-21	O	* 10-23	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	₩ *	* 10-33	*
26 SP#13-2"	φ *	* 10-23	1
27 57 # 14-Surface	Ω *	* 10-23	`
28 SPH14-21	ω	* 10-23	<
38 SP#15- Surface	σ *	* 10-23	*
30 SP#15- 21	ត *	* 10-23	

Thermometer ID #97 Correction Factor + 0.4 °C

Hod By:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Observed Temp. °C_4.9
Corrected Temp. °C_4.9

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY: (Initials)

Thermometer ID #97 Correction Factor + 0.4 °C Turnaround Time:

Standard

Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C

Yes Yes
No Corrected Temp. °C

Time:

Received By:

REMARKS:

Relinguished

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Received By:

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Verbal Result:

☐ Yes

□ No

Add'I Phone #:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

01 East Warland, Hobbs, NW 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: ConocoPhillips	7/8	811110	ANALYSIS REQUEST
Project Manager: Justin Wright	P.O. #:		
Address:	Company: C	ConocoPhillips	
City: Hobbs St NM	Zip: # Attn:		
Phone #: 575-631-9092 Fax #:	Address:		
Project #: Project Owner:	Owner: COPC City:		
Project Name: MLA 2C Header	State: Z	Zip:	
Project Location: Lea County, NM	Phone #:		
Sampler Name: Justin Wright	Fax #:		
	MATRIX PRESERV.	SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME Chlorides	
31 SPAIL - Surface	*	10-23	
32 SP#16-21	G *	10-23	
33 SP#17-Surface	o	10-23	
34 SP#17.2'	۵ *	10-23	
35 5P# 18-5urface	o *	10-23 V	
365P#18-21	۵ *	10-23	
37 57#19 - Surface	s	10-23 V	
38 59419-21	*	10-23	
37 SP # 20 - Surface	σ*	10-23	
40 SP# 20-2'	*	10-23	

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Observed Temp. °C 4. 9 Corrected Temp. °C

Sample Condition
Cool Intact
Tes Tes
No No

CHECKED BY: (Initials)

Turnaround Time:

Standard Rush

Thermometer ID #97 Correction Factor + 0.4 °C

Time:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX (575) 393-2476

Company Name: ConocoPhillips		BILL TO	ANALYSIS REQUEST
Project Manager: Justin Wright		P.O. #:	
Address:		Company: ConocoPhillips	9
City: Hobbs St NM	Zip: #	Attn:	
Phone #: 575-631-9092 Fax #:		Address:	
Project #: Project Owner:	ner: COPC	City:	
Project Name: MCA 2C Header		State: Zip:	
		Phone #:	
		Fax #:	
1	MATRIX	PRESERV. SAMPLING	LING
Lab I.D. Sample I.D.	G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE	OTHER: ACID/BASE: CE / COOL OTHER:	Chlorides
4) SPH21-Surface	ัก *	* 10:23	*
42 SPH 21- 21	ം *	* 10-23	~
~	o *	* /6:23	
14 - Ef HGS HH	ന *	* 10-23	_
455P#23-Surface	ល	* 10.23	_
46 57 # 23 - 21	o *	* 10.33	<
47 SPH 24-Surface	ល	* 10-23	
48 50 #24-21	ന *	* 10-23	
49 57 #25-Surface	o *	* 10-23	
SO SP#26-2"	G *	* 10-23	V
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses, All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including those flowing the contractions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequential damages, including throughout the contraction of the best throughout the provided throughout the contraction of the provided throughout the contraction of the provided throughout the contraction of the provided throughout throughout throughout the provided throughout the provided throughout throughout the provided throughout the provided throughout the provided throughout the provided throughout throughout the provided throughout the provided throughout throughout the provided throughout throughout the provided throughout throughout throughout throughout throughout the provided throughout througho	y for any claim arising whether based in contract all the deemed waiwed unless made in writing at all the deemed waiwed unless interruptions cluding without immataion, business as the claim of the contract of whether such claims to contract the contract of whether such claims.	ct or tort, shall be limited to the amount paind received by Cardinal within 30 days after, loss of use, or loss of profits incurred by the shaked upon any of the above stated remissions.	d by the client for the recognition of the applicable (completion of the applicable (lient, its subsidiaries, lient, its subsidiaries,
affiliates or successors arising out of or related to the performance of services hereunder by Relia mulished By: Date:	Received By:	Received By: Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinduising V.	in in the second		emailed. Please prov
Relinguished By: Date:	Received By:	yann y	REMARKS:

Relynquist

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Corrected Temp. °C_4.4 Observed Temp. °C 4.9

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY: (Initials) 9

Turnaround Time:

Standard Rush

Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C

Yes Yes
No Corrected Temp. °C

Corrected Temp. °C

Thermometer ID #97 Correction Factor + 0.4 °C

Time: Date:

Received By:

REMARKS:

Received By:

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□ Yes

□ No

Add'I Phone #:

Relinquished By:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX (575) 393-2476

Company Name: ConocoPhillips	Vaccing to the second s	8/11/0	ANALYSIS REQUEST
Project Manager: Justin Wright	P.O. #:		
Address:	Company:	ConocoPhillips	
City: Hobbs St NM	Zip: # Attn:		
Phone #: 575-631-9092 Fax #:	Address:		
Project #: Project Owner:	Owner: COPC City:		
Project Name: MCA 2C Hapler	State:	Zīp:	
Project Location: Lea Coudy, NM	Phone #:		
Sampler Name: Justin Wright	Fax #:		
FOR LAB USE ONLY	MATRIX	RV. SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL	OTHER: DATE TIME	Chlorides
51 SP#26-Surface	φ *	10-23	_
52 SPH26-21	ត *	10-23	V
53 SPH 27- Surface	ດ ∗	10-23	<
SY 57427-21	€ A	10-33	
SS SP#28-Surface	*	10-23	V
S6 SP# 38-2'	⋒	10-23	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
57 57# 29-Surface	۰ *	10-23	
S8 52489-21	*	10-23	<
S9 SP#30 - Surface	۵ *	10-23	
16 - OF #45 09	*	10-23	<

Re

Maukhed By:

Received By:

REMARKS:

Received By:

All Results are emailed. Please provide Email address: Verbal Result: ☐ Yes ☐ No Add'l Phone #:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Corrected Temp. °C Observed Temp. °C Time:

44

Sample Condition
Cool _Intact
__Yes __Yes
__ No __ No

CHECKED BY: (Initials)

Turnaround Time:

Standard Rush

Corrected Temp. °C

Thermometer ID #97 Correction Factor + 0.4 °C

Relinquished

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX (575) 393-2476

Company Name: ConocoPhillips		BILL TO	ANALYSIS REQUEST
Project Manager: Justin Wright	P.O. #:		
Address:	Company:	ny: ConocoPhillips	
City: Hobbs St NM	Zip: # Attn:		
Phone #: 575-631-9092 Fax #:	Address:	<i>S</i> ;	
Project #: Project Owner:	vner: COPC City:		
Project Name: MCA &C Header	State:	Zip:	
Project Location: Leg County, MM	Phone #:	#	
Sampler Name: Justin Wright	Fax #:		
	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE:	OTHER:	Chlorides
61 SP#31- Sulface	*	* 10-23	✓
62 SP#31-2	n *	* 10-33	<
63 SP# 32-Surface	6	* 10-23	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
64 SP# 32-21	۸ *	* 10-23	•
65 SPH 33-Surface	o *	10-23	•
66 SP#33-21	٠ *	* 10-23	<
67 SP#34- Surface	*	* 10-23	1
18 - HE# 465 89	a	* 10-23	1
69 57#35-5Wface	⊙	* 10-23	
70 52# 35- 21	ه	* 10-23	

Kelindulshed By:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Corrected Temp. °C 4.4 Observed Temp. °C _4.9

Sample Condition
Cool Intact
Yes Tyes
No No

9 (Initials)

Thermometer ID #97 Correction Factor + 0.4 °C

CHECKED BY:

Turnaround Time:

Standard Rush

Corrected Temp. °C

Time:

Received By:

REMARKS:

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dinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Received By:

Verbal Result:

All Results are emailed. Please provide Email address:

□ No

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX (575) 393-2476 ConocoPhillips

Company Name: ConocoPhillips		BILL TO	ANALYSIS REQUEST
Project Manager: Justin Wright	P.O. #:		
Address:	Company:	ConocoPhillips	
City: Hobbs St NM	Zip: # Attn:		
Phone #: 575-631-9092 Fax #:	Address:		
Project #: Project Owner:	wner: COPC City:		
Project Name: MCA &C Header	State:	Zip:	
Project Location: Lea County, NM	Phone #:		
Sampler Name: Justin Wright	Fax #:		
FOR LAB USE ONLY	MATRIX PRESERV	RV. SAMPLING	
Lab I.D. Sample I.D.	MAB OR (C)OMP DNTAINERS DUNDWATER STEWATER - DGE JER: D/BASE: / COOL	ER:	hlorides
CO COL	# G W SI O SI AI	-	
11 3 5 5 5 TACE	а	10.25	×
12 SP# 36-2	*	16-25	<
73 SP# 37- Surface	*	10-23	V
74 SP#37-2'	π*	111-23	~
75 SP#38-Surface	γ*	10-23	N.
76 SP# 38-21	n *	10-23	
77 SP # 39-Surface	π*	10-23	√
78 SPH39-21	γ	10-23	
79 SPA 40-Surface	n *	10-23	
80 SP#48-21	*	10-23	<

finquished By:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Observed Temp. °C -4.9
Corrected Temp. °C - 4.4

Sample Condition
Cool Intact
Pes Pes
No No

CHECKED BY:

Turnaround Time:

Standard

REMARKS:

Time:

Received By:

Relinquish

service. In no event shall Cardinal be liable for incidental or consequental darnages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is bar Date:

Date:

Received By:

| Verbal Result: ☐ Yes ☐ No | Add'l Phone #:
| All Results are emailed. Please provide Email address:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX (575) 393-2476 ConocoPhillips

Company Name: ConocoPhillips	BILL TO	ANALYSIS REQUEST
Project Manager: Justin Wright	P.O. #:	_
Address:	Company: ConocoPhillips	
City: Hobbs St NM	Zip: # Attn:	
Phone #: 575-631-9092 Fax #:	Address:	
Project #: Project Owner:	wner: COPC City:	
Project Name: MCA 2C Header	State: Zip:	
Project Location: Lea County, NM	Phone #:	
Sampler Name: Justin Wright	Fax #:	
FOR LAB USE ONLY	MATRIX PRESERV. SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	Chlorides
31 SP#41-Surface	*	<
16-14#ds 28	G * * /0-23	<
83 SPH42- Surface	* * 10-23	•
12 -24 492 h8	· * * * * * * * * * * * * * * * * * * *	*
	* * /o-aj	
	· * //-33	
87 SP#44- Surface	* * * * * * * * * * * * * * * * * * *	Υ
	* * /o-23	
89 5PH 45- Surface	* * //-23	~
90 SP#45-21	· * //o-233	

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

(Initials)

Thermometer ID #97 Correction Factor + 0.4 °C



ANALYTICAL REPORT

March 24, 2020

ConocoPhillips - Tetra Tech

Sample Delivery Group: L1199114

Samples Received: 03/13/2020

Project Number: 212C-MD-02119

Description: COP MCA 2-C Header Release

Site: LEA COUNTY, NEW MEXICO

Report To: Christian Llull

901 West Wall

Suite 100

Midland, TX 79701

Entire Report Reviewed By:

Chris McCord

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















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Sc: Sample Chain of Custody

102



AH-4E (0-1') L1199114-01 Solid			Collected by Adrian	Collected date/time 03/03/20 11:00	Received da 03/13/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445642	1	03/19/20 01:41	03/19/20 01:48	KBC	Mt. Juliet, TN
Net Chemistry by Method 300.0	WG1444779	1	03/18/20 02:57	03/18/20 20:10	ST	Mt. Juliet, TN
/olatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 00:27	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 00:32	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/18/20 21:53	FM	Mt. Juliet, TN
AH-4E (3-4') L1199114-02 Solid			Collected by Adrian	Collected date/time 03/03/20 11:10	Received da 03/13/20 08:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
otal Solids by Method 2540 G-2011	WG1445642	1	03/19/20 01:41	03/19/20 01:48	KBC	Mt. Juliet, TN
Vet Chemistry by Method 300.0	WG1444779	1	03/18/20 02:57	03/18/20 20:20	ST	Mt. Juliet, TN
/olatile Organic Compounds (GC) by Method 8015D/GRO	WG1445448	1	03/16/20 08:41	03/17/20 13:18	ADM	Mt. Juliet, TN
/olatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 00:52	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/18/20 22:05	FM	Mt. Juliet, TN
AH-4W (0-1') L1199114-03 Solid			Collected by Adrian	Collected date/time 03/03/20 11:20	Received da 03/13/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Fotal Solids by Method 2540 G-2011	WG1445642	1	03/19/20 01:41	03/19/20 01:48	KBC	Mt. Juliet, TN
Vet Chemistry by Method 300.0	WG1444779	1	03/18/20 02:57	03/18/20 20:29	ST	Mt. Juliet, TN
olatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 01:09	DWR	Mt. Juliet, TN
olatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 01:12	DWR	Mt. Juliet, TN
emi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/18/20 21:40	FM	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AH-4W (3-4') L1199114-04 Solid			Adrian	03/03/20 11:30	03/13/20 08:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
otal Solids by Method 2540 G-2011	WG1445642	1	03/19/20 01:41	03/19/20 01:48	KBC	Mt. Juliet, TN
/et Chemistry by Method 300.0	WG1444779	1	03/18/20 02:57	03/18/20 20:39	ST	Mt. Juliet, TN
olatile Organic Compounds (GC) by Method 8015D/GRO	WG1445448	1	03/16/20 08:41	03/17/20 13:39	ADM	Mt. Juliet, TN
olatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 01:32	DWR	Mt. Juliet, TN
emi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/17/20 22:04	KME	Mt. Juliet, TN
F F (4 O)) 14400444 OF O I'			Collected by Adrian	Collected date/time 03/05/20 11:50	Received da 03/13/20 08:	
T-5 (1-2') L1199114-05 Solid					00/10/20 00.	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
otal Solids by Method 2540 G-2011	WG1445642	1	03/19/20 01:41	03/19/20 01:48	KBC	Mt. Juliet, TN
Vet Chemistry by Method 300.0	WG1444779	1	03/18/20 02:57	03/18/20 20:48	ST	Mt. Juliet, TN
/olatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 01:50	DWR	Mt. Juliet, TN
/olatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 01:52	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/17/20 21:00	KME	Mt. Juliet, TN





















			Calla stad by	Callantad databas	Deceived de	4 - /ki
T F (2, 41), 1,440,044,4,00, 0, 1; 1			Collected by Adrian	Collected date/time 03/05/20 12:00	03/13/20 08:	
T-5 (3-4') L1199114-06 Solid						
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
T + 10 15 1 1 M // 10540 0 00M	WOAAAECAO		date/time	date/time	L/DC	NAC 1 P . TNI
Total Solids by Method 2540 G-2011	WG1445642	1	03/19/20 01:41	03/19/20 01:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0 Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1444780 WG1445119	1 1	03/18/20 08:48 03/16/20 08:41	03/18/20 10:55 03/17/20 02:10	GB DWR	Mt. Juliet, TN Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445119 WG1445122	1.04	03/16/20 08:41	03/17/20 02:10	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 82005	WG1445151	1.04	03/17/20 16:06	03/17/20 02:13	KME	Mt. Juliet, TN
						,
			Collected by	Collected date/time	Received da	te/time
T-5 (5-6') L1199114-07 Solid			Adrian	03/05/20 12:10	03/13/20 08:	:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1445642	1	03/19/20 01:41	03/19/20 01:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	5	03/18/20 08:48	03/18/20 11:14	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445448	1	03/16/20 08:41	03/17/20 13:59	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 02:33	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/17/20 20:35	KME	Mt. Juliet, TN
			Collected by	Collected date/time	Docoived da	to/timo
T. F. (7.01) 1.440.044.4.00 Collina			Collected by Adrian	03/05/20 12:20	03/13/20 08:	
T-5 (7-8') L1199114-08 Solid						
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445642	1	03/19/20 01:41	03/19/20 01:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 11:23	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 02:52	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 02:53	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/17/20 20:48	KME	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
ALLEC (0.1) 1.1100114 00 Colid			Adrian	03/05/20 13:00	03/13/20 08:	
AH-5S (0-1') L1199114-09 Solid						
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445643	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 01:30	03/18/20 11:33	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 03:12	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 03:12	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	20	03/17/20 16:06	03/17/20 23:32	KME	Mt. Juliet, TN
com rotatic organic compounds (co, s, method core		20	00/11/20 10:00	00/11/20 20:02		54
			Collected by	Collected date/time	Received da	te/time
AH-5S (3-4') L1199114-10 Solid			Adrian	03/05/20 13:10	03/13/20 08:	:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1445643	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 11:42	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445448	1	03/16/20 08:41	03/17/20 14:20	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 03:34	DWR	Mt. Juliet, TN



















WG1445151

20

03/17/20 16:06

03/17/20 23:57

KME

SAMPLE SUMMARY



Batch WG1445643	Dilution	Adrian Preparation	03/05/20 11:00 Analysis	03/13/20 08:	00
WG1445643	Dilution	Preparation	Analysis	Amaluat	
			- 7	Analyst	Location
		date/time	date/time		
	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
WG1444780	1	03/18/20 08:48	03/18/20 11:52	GB	Mt. Juliet, TN
WG1445119	1	03/16/20 08:41	03/17/20 03:53	DWR	Mt. Juliet, TN
WG1445122	1	03/16/20 08:41	03/17/20 03:54	DWR	Mt. Juliet, TN
WG1445151	1	03/17/20 16:06	03/18/20 22:18	FM	Mt. Juliet, TN
		Collected by	Collected date/time	Received dat	
		Adrian	03/05/20 11:10	03/13/20 08:	00
Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
WG1445643	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
WG1444780	1	03/18/20 08:48	03/18/20 12:01	GB	Mt. Juliet, TN
WG1445448	1	03/16/20 08:41	03/17/20 14:41	ADM	Mt. Juliet, TN
WG1445122	1	03/16/20 08:41	03/17/20 04:14	DWR	Mt. Juliet, TN
WG1445151	1	03/17/20 16:06	03/18/20 19:46	FM	Mt. Juliet, TN
		Collected by	Collected date/time	Received dat	te/time
		Adrian	03/05/20 11:20	03/13/20 08:	00
Batch	Dilution	Preparation	Analysis date/time	Analyst	Location
WG1445643	1			KBC	Mt. Juliet, TN
WG1444780	1	03/18/20 08:48	03/18/20 12:49	GB	Mt. Juliet, TN
WG1445119	1	03/16/20 08:41	03/17/20 04:34	DWR	Mt. Juliet, TN
WG1445122	1	03/16/20 08:41	03/17/20 04:35	DWR	Mt. Juliet, TN
WG1445151	1	03/17/20 16:06	03/18/20 19:59	FM	Mt. Juliet, TN
		Collected by	Collected date/time	Received dat	te/time
		Adrian	03/05/20 11:30	03/13/20 08:	00
Batch	Dilution	Preparation	Analysis	Analyst	Location
		date/time	date/time		
WG1445643	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
WG1444780	1	03/18/20 08:48	03/18/20 12:58	GB	Mt. Juliet, TN
WG1445119	1	03/16/20 08:41	03/17/20 04:55	DWR	Mt. Juliet, TN
WG1445122	1	03/16/20 08:41	03/17/20 04:55	DWR	Mt. Juliet, TN
WG1445151	1	03/17/20 16:06	03/17/20 21:26	KME	Mt. Juliet, TN
		Collected by	Collected date/time	Received dat	
		Adrian	03/05/20 11:50	03/13/20 08:	00
Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
WG1445643	1			KBC	Mt. Juliet, TN
					Mt. Juliet, TN
WG1445119	1	03/16/20 08:41	03/17/20 05:15	DWR	Mt. Juliet, TN
	WG1445643 WG1445122 WG1445151 Batch WG1445643 WG1445122 WG1445151 Batch WG1445643 WG1445122 WG1445151 WG1445643 WG1445151	Batch Dilution WG1445643 1 WG1445448 1 WG1445122 1 WG1445151 1 Batch Dilution WG1445643 1 WG144519 1 WG1445122 1 WG1445151 1 Batch Dilution WG1445643 1 WG1445151 1 Batch Dilution WG1445643 1 WG1445151 1 Batch Dilution WG1445643 1 WG144519 1 WG1445151 1	Batch Dilution Preparation date/time	Collected by Adrian O3/05/20 11:10	Collected by Adrian O3/05/20 11:10 O3/13/20 08:

















Semi-Volatile Organic Compounds (GC) by Method 8015

WG1445151

20

03/17/20 16:06

03/18/20 00:15

KME



	JAMI LL S					
T-6 (9-10') L1199114-16 Solid			Collected by Adrian	Collected date/time 03/05/20 12:20	Received da: 03/13/20 08:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time	,	
Total Solids by Method 2540 G-2011	WG1445643	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 13:17	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445448	1	03/16/20 08:41	03/17/20 15:01	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 05:35	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/17/20 21:38	KME	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AH-6E (0-1') L1199114-17 Solid			Adrian	03/05/20 13:00	03/13/20 08:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445643	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
Vet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 13:27	GB	Mt. Juliet, TN
/olatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 07:01	DWR	Mt. Juliet, TN
/olatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 05:56	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/19/20 23:30	KME	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AH-6E (3-4') L1199114-18 Solid			Adrian	03/05/20 13:10	03/13/20 08:	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
otal Solids by Method 2540 G-2011	WG1445643	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
Vet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 13:36	GB	Mt. Juliet, TN
olatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 07:22	DWR	Mt. Juliet, TN
/olatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 06:16	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WC144CEEC	1	03/19/20 06:41	03/19/20 21:32	KME	Mt. Juliet, TN
(, -, -, -, -, -, -, -, -, -, -, -, -,	WG1446556	ı		03/13/20 21.32	KIVIL	Wit. Suilet, 114
	WG1440550	ı	Collected by	Collected date/time	Received da	
	WG1440330	ı	Collected by Adrian			te/time
AH-6W (0-1') L1199114-19 Solid	Batch	Dilution	•	Collected date/time	Received da	te/time
AH-6W (0-1') L1199114-19 Solid Method			Adrian Preparation	Collected date/time 03/05/20 11:00 Analysis	Received da: 03/13/20 08:	te/time 00
AH-6W (0-1') L1199114-19 Solid Method Total Solids by Method 2540 G-2011	Batch WG1445647	Dilution	Adrian Preparation date/time 03/19/20 01:21	Collected date/time 03/05/20 11:00 Analysis date/time 03/19/20 01:27	Received dat 03/13/20 08: Analyst	te/time 00 Location Mt. Juliet, TN
AH-6W (0-1') L1199114-19 Solid Method Total Solids by Method 2540 G-2011 Vet Chemistry by Method 300.0	Batch	Dilution	Adrian Preparation date/time	Collected date/time 03/05/20 11:00 Analysis date/time	Received dat 03/13/20 08: Analyst KBC GB	Location Mt. Juliet, TN Mt. Juliet, TN
AH-6W (O-1') L1199114-19 Solid Method Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 Volatile Organic Compounds (GC) by Method 8015D/GRO	Batch WG1445647 WG1444780	Dilution 1 1	Adrian Preparation date/time 03/19/20 01:21 03/18/20 08:48	Collected date/time 03/05/20 11:00 Analysis date/time 03/19/20 01:27 03/18/20 13:46	Received dat 03/13/20 08: Analyst	te/time 00 Location Mt. Juliet, TN
AH-6W (O-1') L1199114-19 Solid Method Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 Volatile Organic Compounds (GC) by Method 8015D/GRO Volatile Organic Compounds (GC/MS) by Method 8260B	Batch WG1445647 WG1444780 WG1445119	Dilution 1 1 1	Adrian Preparation date/time 03/19/20 01:21 03/18/20 08:48 03/16/20 08:41	Collected date/time 03/05/20 11:00 Analysis date/time 03/19/20 01:27 03/18/20 13:46 03/17/20 07:42	Received dat 03/13/20 08: Analyst KBC GB DWR	Location Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN
AH-6W (O-1') L1199114-19 Solid Method Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 Volatile Organic Compounds (GC) by Method 8015D/GRO Volatile Organic Compounds (GC/MS) by Method 8260B	Batch WG1445647 WG1444780 WG1445119 WG1445122	Dilution 1 1 1 1	Adrian Preparation date/time 03/19/20 01:21 03/18/20 08:48 03/16/20 08:41 03/16/20 08:41	Collected date/time 03/05/20 11:00 Analysis date/time 03/19/20 01:27 03/18/20 13:46 03/17/20 07:42 03/17/20 06:36	Received dat 03/13/20 08: Analyst KBC GB DWR DWR	Location Mt. Juliet, TN
AH-6W (O-1') L1199114-19 Solid Method Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 Volatile Organic Compounds (GC) by Method 8015D/GRO Volatile Organic Compounds (GC/MS) by Method 8260B Semi-Volatile Organic Compounds (GC) by Method 8015	Batch WG1445647 WG1444780 WG1445119 WG1445122	Dilution 1 1 1 1	Adrian Preparation date/time 03/19/20 01:21 03/18/20 08:48 03/16/20 08:41 03/16/20 06:41	Collected date/time 03/05/20 11:00 Analysis date/time 03/19/20 01:27 03/18/20 13:46 03/17/20 07:42 03/17/20 06:36 03/19/20 21:45	Received dai 03/13/20 08: Analyst KBC GB DWR DWR KME	Location Mt. Juliet, TN
AH-6W (0-1') L1199114-19 Solid Method Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 /olatile Organic Compounds (GC) by Method 8015D/GRO /olatile Organic Compounds (GC/MS) by Method 8260B Semi-Volatile Organic Compounds (GC) by Method 8015 AH-6W (3-4') L1199114-20 Solid	Batch WG1445647 WG1444780 WG1445119 WG1445122	Dilution 1 1 1 1	Adrian Preparation date/time 03/19/20 01:21 03/18/20 08:48 03/16/20 08:41 03/16/20 06:41 Collected by Adrian Preparation	Collected date/time 03/05/20 11:00 Analysis date/time 03/19/20 01:27 03/18/20 13:46 03/17/20 07:42 03/17/20 06:36 03/19/20 21:45 Collected date/time 03/05/20 11:10 Analysis	Received dat 03/13/20 08: Analyst KBC GB DWR DWR KME	Location Mt. Juliet, TN
AH-6W (O-1') L1199114-19 Solid Method Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 Volatile Organic Compounds (GC) by Method 8015D/GRO Volatile Organic Compounds (GC/MS) by Method 8260B Siemi-Volatile Organic Compounds (GC) by Method 8015 AH-6W (3-4') L1199114-20 Solid Method	Batch WG1445647 WG1444780 WG1445119 WG1445122 WG1446556	Dilution 1 1 1 1 1 1 Dilution	Adrian Preparation date/time 03/19/20 01:21 03/18/20 08:48 03/16/20 08:41 03/16/20 06:41 Collected by Adrian Preparation date/time	Collected date/time 03/05/20 11:00 Analysis date/time 03/19/20 01:27 03/18/20 13:46 03/17/20 07:42 03/17/20 06:36 03/19/20 21:45 Collected date/time 03/05/20 11:10 Analysis date/time	Received dar 03/13/20 08: Analyst KBC GB DWR DWR KME Received dar 03/13/20 08:	Location Mt. Juliet, TN Location
AH-6W (O-1') L1199114-19 Solid Method Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 Volatile Organic Compounds (GC) by Method 8015D/GRO Volatile Organic Compounds (GC/MS) by Method 8260B Semi-Volatile Organic Compounds (GC) by Method 8015 AH-6W (3-4') L1199114-20 Solid Method Total Solids by Method 2540 G-2011	Batch WG1445647 WG1444780 WG1445119 WG1445122 WG1446556 Batch WG1445647	Dilution 1 1 1 1 1 1 Dilution	Adrian Preparation date/time 03/19/20 01:21 03/18/20 08:48 03/16/20 08:41 03/16/20 06:41 Collected by Adrian Preparation date/time 03/19/20 01:21	Collected date/time 03/05/20 11:00 Analysis date/time 03/19/20 01:27 03/18/20 13:46 03/17/20 06:36 03/19/20 21:45 Collected date/time 03/05/20 11:10 Analysis date/time 03/19/20 01:27	Received dar 03/13/20 08: Analyst KBC GB DWR DWR KME Received dar 03/13/20 08: Analyst	Location Mt. Juliet, TN
AH-6W (O-1') L1199114-19 Solid Method Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 /olatile Organic Compounds (GC) by Method 8015D/GRO /olatile Organic Compounds (GC/MS) by Method 8260B Semi-Volatile Organic Compounds (GC) by Method 8015 AH-6W (3-4') L1199114-20 Solid Method Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	Batch WG1445647 WG1444780 WG1445119 WG1445122 WG1446556 Batch WG1445647 WG1444780	Dilution 1 1 1 1 1 1 Dilution	Adrian Preparation date/time 03/19/20 01:21 03/18/20 08:48 03/16/20 08:41 03/19/20 06:41 Collected by Adrian Preparation date/time 03/19/20 01:21 03/18/20 08:48	Collected date/time 03/05/20 11:00 Analysis date/time 03/19/20 01:27 03/18/20 13:46 03/17/20 06:36 03/19/20 21:45 Collected date/time 03/05/20 11:10 Analysis date/time 03/19/20 01:27 03/18/20 13:55	Received dar 03/13/20 08: Analyst KBC GB DWR DWR KME Received dar 03/13/20 08: Analyst	Location Mt. Juliet, TN
AH-6W (O-1') L1199114-19 Solid Method Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 Volatile Organic Compounds (GC) by Method 8015D/GRO Volatile Organic Compounds (GC/MS) by Method 8260B Semi-Volatile Organic Compounds (GC) by Method 8015 AH-6W (3-4') L1199114-20 Solid Method Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 Volatile Organic Compounds (GC) by Method 8015D/GRO Volatile Organic Compounds (GC/MS) by Method 8260B	Batch WG1445647 WG1444780 WG1445119 WG1445122 WG1446556 Batch WG1445647	Dilution 1 1 1 1 1 1 Dilution	Adrian Preparation date/time 03/19/20 01:21 03/18/20 08:48 03/16/20 08:41 03/16/20 06:41 Collected by Adrian Preparation date/time 03/19/20 01:21	Collected date/time 03/05/20 11:00 Analysis date/time 03/19/20 01:27 03/18/20 13:46 03/17/20 06:36 03/19/20 21:45 Collected date/time 03/05/20 11:10 Analysis date/time 03/19/20 01:27	Received dar 03/13/20 08: Analyst KBC GB DWR DWR KME Received dar 03/13/20 08: Analyst	Location Mt. Juliet, TN



















SAMPLE SUMMARY



AH-7W (0-1') L1199114-21 Solid			Collected by Adrian	Collected date/time 03/05/20 11:20	Received data 03/13/20 08:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
otal Solids by Method 2540 G-2011	WG1445647	1	03/19/20 01:21	03/19/20 01:27	KBC	Mt. Juliet, Ti
et Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 14:24	GB	Mt. Juliet, T
platile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 01:23	ADM	Mt. Juliet, T
platile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 15:22	BMB	Mt. Juliet, T
emi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/20/20 07:45	KME	Mt. Juliet, T
			Collected by	Collected date/time	Received da	te/time
.H-7W (3-4') L1199114-22 Solid			Adrian	03/05/20 11:30	03/13/20 08:	00
ethod	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
tal Solids by Method 2540 G-2011	WG1445647	1	03/19/20 01:21	03/19/20 01:27	KBC	Mt. Juliet, Ti
et Chemistry by Method 300.0	WG1444780	5	03/18/20 08:48	03/18/20 14:34	GB	Mt. Juliet, Tl
olatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 01:44	ADM	Mt. Juliet, T
platile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 15:41	BMB	Mt. Juliet, T
emi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/19/20 23:56	KME	Mt. Juliet, T
			Collected by	Collected date/time	Received da	te/time
-7 (1-2') L1199114-23 Solid			Adrian	03/05/20 11:50	03/13/20 08:	00
thod	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
tal Solids by Method 2540 G-2011	WG1445647	1	03/19/20 01:21	03/19/20 01:27	KBC	Mt. Juliet, T
et Chemistry by Method 300.0	WG1444780	5	03/18/20 08:48	03/18/20 14:43	GB	Mt. Juliet, T
latile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 02:04	ADM	Mt. Juliet, T
platile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 16:00	BMB	Mt. Juliet, T
emi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/19/20 22:40	KME	Mt. Juliet, Ti
			Collected by	Collected date/time	Received da	te/time
-7 (17.5') L1199114-24 Solid			Adrian	03/05/20 13:00	03/13/20 08:	00
ethod	Batch	Dilution	Preparation	Analysis	Analyst	Location
	Batch	Dilution	date/time	Analysis date/time	Analyst	
tal Solids by Method 2540 G-2011	WG1445647	Dilution	date/time 03/19/20 01:21	date/time 03/19/20 01:27	KBC	Mt. Juliet, T
tal Solids by Method 2540 G-2011 et Chemistry by Method 300.0	WG1445647 WG1444780	1	date/time 03/19/20 01:21 03/18/20 08:48	date/time 03/19/20 01:27 03/18/20 14:53	KBC GB	Mt. Juliet, T Mt. Juliet, T
otal Solids by Method 2540 G-2011 et Chemistry by Method 300.0 solatile Organic Compounds (GC) by Method 8015D/GRO	WG1445647 WG1444780 WG1445120	1 1 1	date/time 03/19/20 01:21 03/18/20 08:48 03/16/20 08:59	date/time 03/19/20 01:27 03/18/20 14:53 03/17/20 02:25	KBC GB ADM	Mt. Juliet, T Mt. Juliet, T Mt. Juliet, T
tal Solids by Method 2540 G-2011 et Chemistry by Method 300.0 latile Organic Compounds (GC) by Method 8015D/GRO latile Organic Compounds (GC/MS) by Method 8260B	WG1445647 WG1444780 WG1445120 WG1445259	1 1 1 1	03/19/20 01:21 03/18/20 08:48 03/16/20 08:59 03/16/20 08:59	date/time 03/19/20 01:27 03/18/20 14:53 03/17/20 02:25 03/17/20 16:19	KBC GB ADM BMB	Mt. Juliet, T Mt. Juliet, T Mt. Juliet, T Mt. Juliet, T
tal Solids by Method 2540 G-2011 et Chemistry by Method 300.0 platile Organic Compounds (GC) by Method 8015D/GRO platile Organic Compounds (GC/MS) by Method 8260B	WG1445647 WG1444780 WG1445120	1 1 1	date/time 03/19/20 01:21 03/18/20 08:48 03/16/20 08:59	date/time 03/19/20 01:27 03/18/20 14:53 03/17/20 02:25	KBC GB ADM	Mt. Juliet, Tl Mt. Juliet, Tl Mt. Juliet, Tl Mt. Juliet, Tl Mt. Juliet, Tl
otal Solids by Method 2540 G-2011 et Chemistry by Method 300.0 Datile Organic Compounds (GC) by Method 8015D/GRO Datile Organic Compounds (GC/MS) by Method 8260B	WG1445647 WG1444780 WG1445120 WG1445259	1 1 1 1	03/19/20 01:21 03/18/20 08:48 03/16/20 08:59 03/16/20 08:59	date/time 03/19/20 01:27 03/18/20 14:53 03/17/20 02:25 03/17/20 16:19	KBC GB ADM BMB	Mt. Juliet, T Mt. Juliet, T Mt. Juliet, T Mt. Juliet, T Mt. Juliet, T
tal Solids by Method 2540 G-2011 et Chemistry by Method 300.0 latile Organic Compounds (GC) by Method 8015D/GRO latile Organic Compounds (GC/MS) by Method 8260B mi-Volatile Organic Compounds (GC) by Method 8015	WG1445647 WG1444780 WG1445120 WG1445259	1 1 1 1	date/time 03/19/20 01:21 03/18/20 08:48 03/16/20 08:59 03/16/20 08:59 03/19/20 06:41	date/time 03/19/20 01:27 03/18/20 14:53 03/17/20 02:25 03/17/20 16:19 03/20/20 07:19	KBC GB ADM BMB KME	Mt. Juliet, T Mt. Juliet, T Mt. Juliet, T Mt. Juliet, T Mt. Juliet, T
tal Solids by Method 2540 G-2011 et Chemistry by Method 300.0 elatile Organic Compounds (GC) by Method 8015D/GRO elatile Organic Compounds (GC/MS) by Method 8260B emi-Volatile Organic Compounds (GC) by Method 8015 H-7E (O-1') L1199114-25 Solid	WG1445647 WG1444780 WG1445120 WG1445259	1 1 1 1	date/time 03/19/20 01:21 03/18/20 08:48 03/16/20 08:59 03/16/20 08:59 03/19/20 06:41 Collected by Adrian Preparation	date/time 03/19/20 01:27 03/18/20 14:53 03/17/20 02:25 03/17/20 16:19 03/20/20 07:19 Collected date/time 03/05/20 13:10 Analysis	KBC GB ADM BMB KME	Mt. Juliet, T Mt. Juliet, T Mt. Juliet, T Mt. Juliet, T Mt. Juliet, T
tal Solids by Method 2540 G-2011 et Chemistry by Method 300.0 elatile Organic Compounds (GC) by Method 8015D/GRO elatile Organic Compounds (GC/MS) by Method 8260B emi-Volatile Organic Compounds (GC) by Method 8015 H-7E (O-1') L1199114-25 Solid ethod	WG1445647 WG1444780 WG1445120 WG1445259 WG1446556	1 1 1 1 1	date/time 03/19/20 01:21 03/18/20 08:48 03/16/20 08:59 03/16/20 06:41 Collected by Adrian Preparation date/time	date/time 03/19/20 01:27 03/18/20 14:53 03/17/20 02:25 03/17/20 16:19 03/20/20 07:19 Collected date/time 03/05/20 13:10 Analysis date/time	KBC GB ADM BMB KME Received da 03/13/20 08:	Mt. Juliet, T Mt. Juliet, T Mt. Juliet, T Mt. Juliet, T Mt. Juliet, T te/time 00
etal Solids by Method 2540 G-2011 et Chemistry by Method 300.0 elatile Organic Compounds (GC) by Method 8015D/GRO elatile Organic Compounds (GC/MS) by Method 8260B emi-Volatile Organic Compounds (GC) by Method 8015 emi-Volatile Organic Compounds (GC) by Method 8015 elh-7E (O-1') L1199114-25 Solid ethod etal Solids by Method 2540 G-2011	WG1445647 WG1444780 WG1445120 WG1445259 WG1446556	1 1 1 1 1 1 Dilution	date/time 03/19/20 01:21 03/18/20 08:48 03/16/20 08:59 03/16/20 06:41 Collected by Adrian Preparation date/time 03/19/20 01:21	date/time 03/19/20 01:27 03/18/20 14:53 03/17/20 02:25 03/17/20 16:19 03/20/20 07:19 Collected date/time 03/05/20 13:10 Analysis date/time 03/19/20 01:27	KBC GB ADM BMB KME Received da 03/13/20 08: Analyst	Mt. Juliet, T te/time 00 Location Mt. Juliet, T
otal Solids by Method 2540 G-2011 et Chemistry by Method 300.0 platile Organic Compounds (GC) by Method 8015D/GRO platile Organic Compounds (GC/MS) by Method 8260B emi-Volatile Organic Compounds (GC) by Method 8015 AH-7E (O-1') L1199114-25 Solid ethod ptal Solids by Method 2540 G-2011 et Chemistry by Method 300.0	WG1445647 WG1444780 WG1445120 WG1445259 WG1446556 Batch WG1445647 WG1444780	1 1 1 1 1 1 Dilution	date/time 03/19/20 01:21 03/18/20 08:48 03/16/20 08:59 03/16/20 06:41 Collected by Adrian Preparation date/time 03/19/20 01:21 03/18/20 08:48	date/time 03/19/20 01:27 03/18/20 14:53 03/17/20 02:25 03/17/20 16:19 03/20/20 07:19 Collected date/time 03/05/20 13:10 Analysis date/time 03/19/20 01:27 03/18/20 15:02	KBC GB ADM BMB KME Received dat 03/13/20 08: Analyst KBC GB	Mt. Juliet, T te/time 00 Location Mt. Juliet, T Mt. Juliet, T
ethod otal Solids by Method 2540 G-2011 et Chemistry by Method 300.0 olatile Organic Compounds (GC) by Method 8015D/GRO olatile Organic Compounds (GC/MS) by Method 8260B emi-Volatile Organic Compounds (GC) by Method 8015 AH-7E (O-1') L1199114-25 Solid ethod otal Solids by Method 2540 G-2011 et Chemistry by Method 300.0 olatile Organic Compounds (GC/MS) by Method 8015D/GRO olatile Organic Compounds (GC/MS) by Method 8260B	WG1445647 WG1444780 WG1445120 WG1445259 WG1446556	1 1 1 1 1 1 Dilution	date/time 03/19/20 01:21 03/18/20 08:48 03/16/20 08:59 03/16/20 06:41 Collected by Adrian Preparation date/time 03/19/20 01:21	date/time 03/19/20 01:27 03/18/20 14:53 03/17/20 02:25 03/17/20 16:19 03/20/20 07:19 Collected date/time 03/05/20 13:10 Analysis date/time 03/19/20 01:27	KBC GB ADM BMB KME Received da 03/13/20 08: Analyst	Mt. Juliet, Ti Mt. Juliet, Ti Mt. Juliet, Ti Mt. Juliet, Ti Mt. Juliet, Ti te/time



















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AH-7E (3-4') L1199114-26 Solid			Collected by Adrian	Collected date/time 03/06/20 11:00	Received da 03/13/20 08	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
	Sate	Bildion	date/time	date/time	, many st	20001011
Total Solids by Method 2540 G-2011	WG1445647	1	03/19/20 01:21	03/19/20 01:27	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	10	03/17/20 22:10	03/18/20 00:06	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 06:54	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 16:57	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/20/20 00:08	KME	Mt. Juliet, TN
			Collected by	Collected date/time		
AH-8N (0-1') L1199114-27 Solid			Adrian	03/06/20 11:20	03/13/20 08	:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
T. 10 H. 1 M. H. 10540 0 004	W04445047		date/time	date/time	1/00	14. 1 II . Th
Total Solids by Method 2540 G-2011	WG1445647	1	03/19/20 01:21	03/19/20 01:27	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	1	03/17/20 22:10	03/18/20 00:15	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 07:14	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 17:16	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/19/20 23:05	KME	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AH-8N (3-4') L1199114-28 Solid			Adrian	03/06/20 11:30	03/13/20 08	:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445648	1	03/19/20 00:56	03/19/20 01:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	5	03/17/20 22:10	03/18/20 00:24	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 07:35	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 17:35	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/20/20 07:32	KME	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
T-8 (1-2') L1199114-29 Solid			Adrian	03/06/20 11:50	03/13/20 08	:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1445648	1	03/19/20 00:56	03/19/20 01:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	5	03/17/20 22:10	03/18/20 00:34	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445660	1	03/16/20 08:59	03/17/20 18:34	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 17:54	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	20	03/19/20 06:41	03/20/20 02:28	KME	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
T-8 (3-4') L1199114-30 Solid			Adrian	03/06/20 12:00	03/13/20 08	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445648	1	03/19/20 00:56	03/19/20 01:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	5	03/17/20 22:10	03/18/20 00:53	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 08:16	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 18:13	BMB	Mt. Juliet, TN
0 11/1 11/1 0 11/					10.0	



















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T-8 (7-8') L1199114-31 Solid			Collected by Adrian	Collected date/time 03/06/20 12:10	Received da 03/13/20 08:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
	Baten	Bildion	date/time	date/time	, mary st	200000
Total Solids by Method 2540 G-2011	WG1445648	1	03/19/20 00:56	03/19/20 01:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	5	03/17/20 22:10	03/18/20 01:02	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445660	1	03/16/20 08:59	03/17/20 18:54	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 18:32	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 13:28	JDG	Mt. Juliet, TN
T-8 (9-10') L1199114-32 Solid			Collected by Adrian	Collected date/time 03/06/20 12:20	Received da 03/13/20 08:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1445648	1	03/19/20 00:56	03/19/20 01:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	5	03/17/20 22:10	03/18/20 01:12	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 08:57	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 18:51	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 02:54	JDG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AH-8E (0-1') L1199114-33 Solid			Adrian	03/06/20 13:00	03/13/20 08:	:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445648	1	03/19/20 00:56	03/19/20 01:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	1	03/17/20 22:10	03/18/20 01:40	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 09:17	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 19:10	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 03:07	JDG	Mt. Juliet, TN
AH-8E (3-4') L1199114-34 Solid			Collected by Adrian	Collected date/time 03/06/20 13:10	Received da 03/13/20 08:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1445648	1	03/19/20 00:56	03/19/20 01:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	1	03/17/20 22:10	03/18/20 02:09	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 09:38	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 08:59	03/18/20 08:16	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 02:41	JDG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AH-8W (0-1') L1199114-35 Solid			Adrian	03/06/20 11:00	03/13/20 08:	:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445648	1	03/19/20 00:56	03/19/20 01:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	1	03/17/20 22:10	03/18/20 02:18	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 09:58	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 08:59	03/18/20 08:37	BMB	Mt. Juliet, TN
Comi Valatila Organia Compounda (CC) hu Mathad 9015	WC1447C7F	20	03/10/20 00:35	03/10/20 00:57	IDC	Mt. Juliot TN



















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ALL OW/ (0.41), 14400444, 00. 0. 11. 1			Collected by Adrian	Collected date/time 03/06/20 11:10	Received da 03/13/20 08:	
AH-8W (3-4') L1199114-36 Solid			AUIIaII	03/00/20 11.10	US/13/2U U8.	.00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1445648	1	03/19/20 00:56	03/19/20 01:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	1	03/17/20 22:10	03/18/20 02:28	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 10:18	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445267 WG1447675	1 1	03/16/20 08:59 03/20/20 15:35	03/18/20 08:58 03/21/20 13:02	BMB JDG	Mt. Juliet, TN Mt. Juliet, TN
Semi-volatile organic compounds (GC) by Method 8015	WG1447075	ı	03/20/20 13.33	03/21/20 13.02	JDG	Mt. Juliet, TN
			Collected by	Collected date/time		
AH-9E (0-1) L1199114-37 Solid			Adrian	03/06/20 11:20	03/13/20 08:	:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445648	1	03/19/20 00:56	03/19/20 01:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	1	03/17/20 22:10	03/18/20 02:37	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 10:39	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 08:59	03/18/20 09:18	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 00:48	JDG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AH-9E (3-4') L1199114-38 Solid			Adrian	03/06/20 11:30	03/13/20 08:	:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445649	1	date/time 03/19/20 00:46	date/time 03/19/20 00:54	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	1	03/17/20 22:10	03/18/20 00:34	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 10:59	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 08:59	03/18/20 09:39	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 13:15	JDG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
T-9 (1-2') L1199114-39 Solid			Adrian	03/06/20 11:50	03/13/20 08:	
\	Doteh	Dilution	Dranaration	Amalyaia	Amaluat	Leastion
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	20	03/17/20 22:10	03/18/20 02:57	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445660	1	03/16/20 08:59	03/17/20 19:15	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 08:59	03/18/20 10:00	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	20	03/20/20 15:35	03/21/20 03:32	JDG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
T-9 (3-4') L1199114-40 Solid			Adrian	03/06/20 12:00	03/13/20 08:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	20	03/17/20 22:10	03/18/20 03:06	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445660	1	03/16/20 08:59	03/17/20 19:35	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 08:59	03/18/20 10:21	BMB	Mt. Juliet, TN



















WG1447675

10

03/20/20 15:35

03/21/20 03:44

JDG



			Collected by	Collected date/time		
Г-9 (7-8') L1199114-41 Solid			Adrian	03/06/20 12:10	03/13/20 08:	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
otal Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, TI
et Chemistry by Method 300.0	WG1445291	20	03/17/20 22:10	03/18/20 03:35	ELN	Mt. Juliet, T
olatile Organic Compounds (GC) by Method 8015D/GRO	WG1447538	1	03/16/20 09:14	03/20/20 16:07	JAH	Mt. Juliet, T
olatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 10:41	BMB	Mt. Juliet, T
emi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 01:00	JDG	Mt. Juliet, Ti
			Collected by	Collected date/time	Received da	te/time
-9 (9-10') L1199114-42 Solid			Adrian	03/06/20 12:20	03/13/20 08:	:00
lethod	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
otal Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, Ti
et Chemistry by Method 300.0	WG1445291	20	03/17/20 22:10	03/18/20 03:44	ELN	Mt. Juliet, T
platile Organic Compounds (GC) by Method 8015D/GRO	WG1445128	1	03/16/20 09:14	03/17/20 07:31	BMB	Mt. Juliet, T
olatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 11:02	BMB	Mt. Juliet, T
emi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 01:13	JDG	Mt. Juliet, T
			Collected by	Collected date/time	Received da	te/time
AH-9W (0-1') L1199114-43 Solid			Adrian	03/06/20 13:00	03/13/20 08:	00
ethod	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
otal Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, TI
et Chemistry by Method 300.0	WG1445291	1	03/17/20 22:10	03/18/20 03:54	ELN	Mt. Juliet, T
platile Organic Compounds (GC) by Method 8015D/GRO	WG1445128	1	03/16/20 09:14	03/17/20 07:53	BMB	Mt. Juliet, T
platile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 11:23	BMB	Mt. Juliet, T
emi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	50	03/20/20 15:35	03/21/20 03:19	JDG	Mt. Juliet, TI
			Collected by	Collected date/time	Received da	te/time
AH-9W (3-4') L1199114-44 Solid			Adrian	03/06/20 13:10	03/13/20 08:	00
lethod	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
otal Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, TI
et Chemistry by Method 300.0	WG1445291	1	03/17/20 22:10	03/18/20 04:03	ELN	Mt. Juliet, Ti
platile Organic Compounds (GC) by Method 8015D/GRO	WG1445128	1	03/16/20 09:14	03/17/20 08:25	BMB	Mt. Juliet, T
platile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 11:43	BMB	Mt. Juliet, Tl
emi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 01:26	JDG	Mt. Juliet, T
			Callacted	Collogated day by	Dog-to-1	to/time -
			Collected by Adrian	Collected date/time 03/09/20 11:00	Received da 03/13/20 08:	
14-10F (0-1") 1199114-45 Salid						
· ,	Ratch	Dilution	Preparation	Analysis	Analyst	Location
	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
ethod	Batch WG1445649	Dilution 1	•	•	Analyst KBC	
ethod otal Solids by Method 2540 G-2011			date/time	date/time		Mt. Juliet, Tl
otal Solids by Method 2540 G-2011 Yet Chemistry by Method 300.0	WG1445649	1	date/time 03/19/20 00:46	date/time 03/19/20 00:54	KBC	Mt. Juliet, TI Mt. Juliet, TI Mt. Juliet, TI
AH-10E (0-1') L1199114-45 Solid Iethod otal Solids by Method 2540 G-2011 Vet Chemistry by Method 300.0 olatile Organic Compounds (GC/MS) by Method 8015D/GRO olatile Organic Compounds (GC/MS) by Method 8260B	WG1445649 WG1445292	1 1	date/time 03/19/20 00:46 03/17/20 20:08	date/time 03/19/20 00:54 03/18/20 00:58	KBC ELN	Mt. Juliet, TI Mt. Juliet, TI



















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AH-10E (3-4') L1199114-46 Solid			Collected by Adrian	Collected date/time 03/09/20 11:10	Received da 03/13/20 08	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time	,	
Total Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	1	03/17/20 20:08	03/18/20 01:51	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445128	1	03/16/20 09:14	03/17/20 09:57	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 12:24	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 02:29	JDG	Mt. Juliet, TN
AH-10W (0-1') L1199114-47 Solid			Collected by Adrian	Collected date/time 03/09/20 11:20	Received da 03/13/20 08	
	D	D:1 ::	D ::	A 1 :		1
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
T + 10 11 1 M + 1 10540 0 2044	W04445040		date/time	date/time	I/DC	NA. I I TAI
Total Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	1	03/17/20 20:08	03/18/20 02:09	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445128	1	03/16/20 09:14	03/17/20 10:20	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 12:45	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 01:51	JDG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AH-10W (3-4') L1199114-48 Solid			Adrian	03/09/20 11:30	03/13/20 08	:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	1	03/17/20 20:08	03/18/20 02:27	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445128	1	03/16/20 09:14	03/17/20 10:42	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445128 WG1445267	1	03/16/20 09:14	03/18/20 13:06	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 02:03	JDG	Mt. Juliet, TN
T-10 (1-2') L1199114-49 Solid			Collected by Adrian	Collected date/time 03/09/20 11:50	Received da 03/13/20 08	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	5	03/17/20 20:08	03/18/20 02:45	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445128	1	03/16/20 09:14	03/17/20 11:03	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 13:26	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 02:16	JDG	Mt. Juliet, TN
T-10 (14-15') L1199114-50 Solid			Collected by Adrian	Collected date/time 03/09/20 12:20	Received da 03/13/20 08	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time	- /	
Total Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	1	03/17/20 20:08	03/18/20 03:03	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445199	1	03/16/20 09:14	03/17/20 11:14	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 13:47	BMB	Mt. Juliet, TN
0 11/1 11/1 0 1 0 1 1 1 1 1 1 1 1 1 1 1					141.45	



















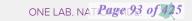
WG1447038

03/19/20 16:24

03/20/20 00:31

KME

SAMPLE SUMMARY



Trail Solide by Method 2500 C-2011 WC4456581 1 0 0379/20 00034 0319/00 00043							
Balch Dilation Dilation Proportion Analysis Analysis Dilation Control (1972) Control (1972				•			
	T-9 (16'-17') L1199114-51 Solid			Adrian	03/09/20 13:00	03/13/20 08:	:00
Total Solids by Method 2540 G-2011	lethod	Batch	Dilution	Preparation	Analysis	Analyst	Location
Wideling				date/time	date/time		
Addition	otal Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, T
Microscope Mic	et Chemistry by Method 300.0	WG1445292	10	03/17/20 20:08	03/18/20 03:57	ELN	Mt. Juliet, T
### Micropanic Compounds (GC) by Method 8015 ### Micropanic Compoun	platile Organic Compounds (GC) by Method 8015D/GRO	WG1445199	1	03/16/20 09:14	03/17/20 11:38	ACG	Mt. Juliet, T
Advision Collected by Advision Collected date time Received date time Collected date time Collect	olatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 14:07	BMB	Mt. Juliet, T
### Control of the Compounds (Control of the Control of the Con	emi-Volatile Organic Compounds (GC) by Method 8015	WG1447038	1	03/19/20 16:24	03/20/20 00:45	KME	Mt. Juliet, T
Barbox B				Collected by	Collected date/time	Received da	te/time
	.H-11W (0-1') L1199114-52 Solid			Adrian	03/10/20 10:50	03/13/20 08:	:00
tal Solids by Method 2540 G-2011 WG1445651 1 03/19/20 00:34 03/19/20 00:43 KBC Mt. Juliet. et Chemistry by Method 300.0 WG1445925 10 03/17/20 20:08 03/18/20 04:13 ELN Mt. Juliet. biblio Grganic Compounds (GC) W6thod 80/15D/GRO WG1445967 1 03/16/20 09:14 03/18/20 14:28 BMB Mt. Juliet. biblio Grganic Compounds (GC) by Method 80/15D W6thod	ethod	Batch	Dilution	Preparation	Analysis	Analyst	Location
et Chemistry by Method 300.0 WG1445292 10 03/17/20 20:08 03/18/20 04:15 ELN Mt. Juliet, Juli				date/time	date/time		
Dilution Compounds (GC) by Method 8015D/GRO WG1445199 1 03/16/20 09:14 03/17/20 12:14 ACG Mt. Juliet. Dilution O3/16/20 09:14 03/16/20 14:28 BMB Mt. Juliet. Mt. Juliet. Mt. Juliet. Mt. Juliet. Collected by O3/16/20 10:45 FM Mt. Juliet. Collected by O3/16/20 10:40 Mt. Juliet. Collected by O3/16/20 09:40 Mt. J	ital Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, T
Statistic Organic Compounds (CC/MS) by Method 82608 WG1445267 1 03/16/20 09:14 03/18/20 14:28 BMB Mt. Juliet, with Volatile Organic Compounds (GC) by Method 8015 WG1447038 1 03/19/20 16:24 03/20/20 10:45 FM Mt. Juliet, with VG1447038 1 03/19/20 16:24 03/20/20 10:45 FM Mt. Juliet, with VG1447038 1 03/19/20 16:24 03/20/20 10:45 FM Mt. Juliet, with VG1447038 1 03/19/20 16:24 03/20/20 10:45 FM Mt. Juliet, with VG1445651 VG1447038 VG14	et Chemistry by Method 300.0	WG1445292	10	03/17/20 20:08	03/18/20 04:15	ELN	Mt. Juliet, T
##H-11W (3-4') L1199114-53 Solid	platile Organic Compounds (GC) by Method 8015D/GRO	WG1445199	1	03/16/20 09:14	03/17/20 12:14	ACG	Mt. Juliet, T
Collected by Adrian Collected date/time Received date/time Adrian Collected date/time Collected date	platile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 14:28	BMB	Mt. Juliet, T
## Adrian	emi-Volatile Organic Compounds (GC) by Method 8015	WG1447038	1	03/19/20 16:24	03/20/20 10:45	FM	Mt. Juliet, T
Batch				Collected by	Collected date/time	Received da	te/time
tal Solids by Method 2540 G-2011 WG1445651 1 03/19/20 00:34 03/19/20 00:43 KBC Mt. Juliet, et Chemistry by Method 300.0 WG1445650 1 03/19/20 09:14 03/19/20 17:19 JAH Mt. Juliet, shatile Organic Compounds (GC) by Method 8015D/GRO WG1446150 1 03/16/20 09:14 03/18/20 17:19 JAH Mt. Juliet, shatile Organic Compounds (GC) by Method 8260B WG1445267 1 03/16/20 09:14 03/18/20 17:19 JAH Mt. Juliet, work-volatile Organic Compounds (GC) by Method 8015 WG1447038 1 03/19/20 16:24 03/20/20 10:59 FM Mt. Juliet, work-volatile Organic Compounds (GC) by Method 8015 WG1447038 1 03/19/20 16:24 03/20/20 10:59 FM Mt. Juliet, work-volatile Organic Compounds (GC) by Method 8015 WG1447038 1 03/19/20 16:24 03/20/20 10:59 FM Mt. Juliet, work-volatile Organic Compounds (GC) by Method 8015 WG1447038 1 03/19/20 16:24 03/20/20 10:59 FM Mt. Juliet, work-volatile Organic Compounds (GC) by Method 8015 WG1445651 1 03/19/20 00:34 03/10/20 11:10 03/13/20 08:00 wG144569 WG1445691 1 03/19/20 00:34 03/19/20 00:34 KBC Mt. Juliet, work-volatile Organic Compounds (GC) by Method 8015D/GRO WG144599 1 03/16/20 09:14 03/17/20 17:30 JHH Mt. Juliet, with-Volatile Organic Compounds (GC) by Method 8015 WG1445691 1 03/19/20 06:24 03/20/20 10:32 FM Mt. Juliet, with-Volatile Organic Compounds (GC) by Method 8015 WG1445691 1 03/19/20 06:24 03/20/20 10:32 FM Mt. Juliet, with-Volatile Organic Compounds (GC) by Method 8015 WG1445691 1 03/19/20 06:44 03/20/20 10:32 FM Mt. Juliet, with-Volatile Organic Compounds (GC) by Method 8015 WG1445691 1 03/19/20 06:44 03/20/20 10:32 FM Mt. Juliet, with-Volatile Organic Compounds (GC) by Method 8015 WG1445691 1 03/19/20 06:44 03/20/20 10:32 FM Mt. Juliet, with-Volatile Organic Compounds (GC) WG1445691 1 03/19/20 06:40 03/19/20 06:43 03/19/20 06:44 03/1	.H-11W (3-4') L1199114-53 Solid			Adrian	03/10/20 11:00	03/13/20 08:	:00
tal Solids by Method 2540 G-2011	ethod	Batch	Dilution	Preparation	Analysis	Analyst	Location
et Chemistry by Method 300.0 WG1445292 1 03/17/20 20:08 03/18/20 04:32 ELN Mt. Juliet, platile Organic Compounds (GC) by Method 8015D/GR0 WG1446150 1 03/16/20 09:14 03/18/20 17:19 JAH Mt. Juliet, platile Organic Compounds (GC/MS) by Method 8260B WG1445267 1 03/16/20 09:14 03/18/20 17:19 JAH Mt. Juliet, platile Organic Compounds (GC) by Method 8015 WG1447038 1 03/19/20 16:24 03/20/20 10:59 FM Mt. Juliet, platile Organic Compounds (GC) by Method 8015 WG1447038 1 03/19/20 16:24 03/20/20 10:59 FM Mt. Juliet, platile Organic Compounds (GC) by Method 8015 WG1445651 1 03/19/20 00:34 03/19/20 00:43 KBC Mt. Juliet, platile Organic Compounds (GC) by Method 8015D/GRO WG1445292 1 03/17/20 20:08 03/18/20 05:26 ELN Mt. Juliet, platile Organic Compounds (GC/MS) by Method 8015D/GRO WG144599 1 03/16/20 09:14 03/17/20 17:30 JHH Mt. Juliet, platile Organic Compounds (GC) by Method 8015D/GRO WG1445651 1 03/19/20 10:24 03/20/20 10:32 FM Mt. Juliet, platile Organic Compounds (GC) by Method 8015D/GRO WG144509 1 03/19/20 10:24 03/20/20 10:32 FM Mt. Juliet, platile Organic Compounds (GC) by Method 8015 WG1445651 1 03/19/20 10:34 03/17/20 17:30 JHH Mt. Juliet, platile Organic Compounds (GC) by Method 8015 WG1445651 1 03/19/20 10:34 03/17/20 17:30 JHH Mt. Juliet, platile Organic Compounds (GC) by Method 8015 WG1445651 1 03/19/20 10:34 03/17/20 17:30 JHH Mt. Juliet, platile Organic Compounds (GC) by Method 8015 WG1445651 1 03/19/20 10:34 03/19/20 10:32 FM Mt. Juliet, platile Organic Compounds (GC) by Method 8015 WG1445651 1 03/19/20 00:34 03/19/20 10:32 FM Mt. Juliet, platile Organic Compounds (GC) by Method 8015 WG1445651 1 03/19/20 00:34 03/19/20 00:34 ELN Mt. Juliet, platile Organic Compounds (GC) by Method 8015D/GRO WG1445651 1 03/19/20 00:34 03/19/20 00:34 ELN Mt. Juliet, platile Organic Compounds (GC) by Method 8015D/GRO WG1445651 1 03/19/20 00:34 03/19/20 00:34 ELN Mt. Juliet, platile Organic Compounds (GC) by Method 8015D/GRO WG1445691 1 03/19/20 00:34 03/19/20 00:34 ELN Mt. Juliet, platile Organic Compounds (GC				date/time	date/time		
Mattle Organic Compounds (GC) by Method 8015D/GRO WG1446150 1 03/16/20 09:14 03/18/20 17:19 JAH Mt. Juliet, volatile Organic Compounds (GC/MS) by Method 8260B WG1445267 1 03/16/20 09:14 03/18/20 14:48 BMB Mt. Juliet, mi-Volatile Organic Compounds (GC) by Method 8015 WG1447038 1 03/19/20 16:24 03/20/20 10:59 FM Mt. Juliet, mi-Volatile Organic Compounds (GC) by Method 8015 WG1447038 1 03/19/20 16:24 03/20/20 10:59 FM Mt. Juliet, mi-Volatile Organic Compounds (GC) by Method 8015 WG1447038 1 03/19/20 16:24 03/20/20 10:59 FM Mt. Juliet, mi-Volatile Organic Compounds (GC) by Method 3015 WG1445651 1 03/19/20 00:34 03/19/20 00:43 KBC Mt. Juliet, at Chemistry by Method 2540 G-2011 WG1445651 1 03/19/20 00:34 03/19/20 05:26 ELN Mt. Juliet, with properties of the compounds (GC) by Method 8015D/GRO WG1445199 1 03/16/20 09:14 03/17/20 13:02 ACG Mt. Juliet, mi-Volatile Organic Compounds (GC/MS) by Method 8015 WG1447038 1 03/19/20 16:24 03/20/20 10:32 FM Mt. Juliet, mi-Volatile Organic Compounds (GC) by Method 8015 WG1447038 1 03/19/20 16:24 03/20/20 10:32 FM Mt. Juliet, mi-Volatile Organic Compounds (GC/MS) by Method 8015 WG1447038 1 03/19/20 16:24 03/20/20 10:32 FM Mt. Juliet, mi-Volatile Organic Compounds (GC/MS) WG1447038 1 03/19/20 16:24 03/20/20 10:32 FM Mt. Juliet, mi-Volatile Organic Compounds (GC/MS) WG14454519 1 03/16/20 09:14 03/19/20 00:43 KBC Mt. Juliet, at Chemistry by Method 2540 G-2011 WG1445651 1 03/19/20 00:34 03/19/20 00:43 KBC Mt. Juliet, at Chemistry by Method 2540 G-2011 WG1445651 1 03/19/20 00:34 03/19/20 00:43 KBC Mt. Juliet, at Chemistry by Method 2540 G-2011 WG1445692 1 03/16/20 09:14 03/19/20 00:43 KBC Mt. Juliet, at Chemistry by Method 300.0 WG1445692 1 03/16/20 09:14 03/19/20 00:43 KBC Mt. Juliet, at Chemistry by Method 300.0 WG1445699 1 03/16/20 09:14 03/17/20 13:26 ACG Mt. Juliet, at Chemistry by Method 300.0 WG1445499 1 03/16/20 09:14 03/17/20 13:2	tal Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, T
Diable Organic Compounds (GC/MS) by Method 8260B WG1445267 1 03/16/20 09:14 03/18/20 14:48 BMB Mt. Juliet, Emi-Volatile Organic Compounds (GC) by Method 8015 WG1447038 1 03/19/20 16:24 03/20/20 10:59 FM Mt. Juliet, Collected by Adrian 03/10/20 11:10 03/13/20 08:00	et Chemistry by Method 300.0	WG1445292	1	03/17/20 20:08	03/18/20 04:32	ELN	Mt. Juliet, T
###-Volatile Organic Compounds (GC) by Method 8015 ####-Volatile Organic Compounds (GC) by Method 8015 ####-Volatile Organic Compounds (GC) by Method 8015 ####-Volatile Organic Compounds (GC) by Method 8015 #####-Volatile Organic Compounds (GC) by Method 8015 ###################################	olatile Organic Compounds (GC) by Method 8015D/GRO	WG1446150	1	03/16/20 09:14	03/18/20 17:19	JAH	Mt. Juliet, T
Collected by Adrian 03/10/20 11:10 03/13/20 08:00 ethod Batch Dilution Preparation date/time date/time date/time stal Solids by Method 2540 G-2011 WG1445651 1 03/19/20 00:34 03/19/20 00:43 KBC Mt. Juliet, et Chemistry by Method 300.0 WG1445292 1 03/16/20 09:14 03/17/20 13:02 ACG Mt. Juliet, et Dilution Organic Compounds (GC) by Method 8015D/GRO WG1445199 1 03/16/20 09:14 03/17/20 17:30 JHH Mt. Juliet, et Chemistry by Method 300.0 WG14454919 1 03/16/20 09:14 03/17/20 17:30 JHH Mt. Juliet, et Chemistry by Method 8015D/GRO WG1445199 1 03/16/20 09:14 03/17/20 17:30 JHH Mt. Juliet, et Chemistry by Method 8015D/GRO WG1445419 1 03/16/20 09:14 03/17/20 17:30 JHH Mt. Juliet, et Chemistry by Method 8015 WG1447038 1 03/19/20 16:24 03/20/20 10:32 FM Mt. Juliet, et Chemistry by Method 8015 Dilution Preparation date/time date/	platile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 14:48	BMB	Mt. Juliet, T
Adrian O3/10/20 11:10 O3/13/20 08:00 Ethod E	emi-Volatile Organic Compounds (GC) by Method 8015	WG1447038	1	03/19/20 16:24	03/20/20 10:59	FM	Mt. Juliet, T
Batch Dilution Preparation Analysis Analyst Location date/time				Collected by	Collected date/time	Received da	te/time
Date Collected by Collected date / time Collected by Collected by Collected date / time Collected by	AH-11E (0-1') L1199114-54 Solid			Adrian	03/10/20 11:10	03/13/20 08:	00
Stall Solids by Method 2540 G-2011 WG1445651 1 03/19/20 00:34 03/19/20 00:43 KBC Mt. Juliet, et Chemistry by Method 300.0 WG1445292 1 03/17/20 20:08 03/18/20 05:26 ELN Mt. Juliet, obtaile Organic Compounds (GC) by Method 8015D/GRO WG1445199 1 03/16/20 09:14 03/17/20 13:02 ACG Mt. Juliet, obtaile Organic Compounds (GC/MS) by Method 8260B WG1445419 1 03/16/20 09:14 03/17/20 17:30 JHH Mt. Juliet, emi-Volatile Organic Compounds (GC) by Method 8015 WG1447038 1 03/19/20 16:24 03/20/20 10:32 FM Mt. Juliet, emi-Volatile Organic Compounds (GC) by Method 8015 WG1447038 1 03/19/20 16:24 03/20/20 10:32 FM Mt. Juliet, et Chemistry by Method 2540 G-2011 WG1445651 1 03/19/20 00:34 03/19/20 00:43 KBC Mt. Juliet, et Chemistry by Method 300.0 WG144592 1 03/17/20 20:08 03/18/20 05:44 ELN Mt. Juliet, obtaile Organic Compounds (GC) by Method 8015D/GRO WG1445199 1 03/16/20 09:14 03/17/20 13:26 ACG Mt. Juliet, obtaile Organic Compounds (GC/MS) by Method 8260B WG1445419 1 03/16/20 09:14 03/17/20 17:49 JHH Mt. Juliet, obtaile Organic Compounds (GC/MS) by Method 8260B WG1445419 1 03/16/20 09:14 03/17/20 17:49 JHH Mt. Juliet, obtaile Organic Compounds (GC/MS) by Method 8260B WG1445419 1 03/16/20 09:14 03/17/20 17:49 JHH Mt. Juliet, obtaile Organic Compounds (GC/MS) by Method 8260B WG1445419 1 03/16/20 09:14 03/17/20 17:49 JHH Mt. Juliet, obtaile Organic Compounds (GC/MS) by Method 8260B WG1445419 1 03/16/20 09:14 03/17/20 17:49 JHH Mt. Juliet, obtaile Organic Compounds (GC/MS) by Method 8260B WG1445419 1 03/16/20 09:14 03/17/20 17:49 JHH Mt. Juliet, obtaile Organic Compounds (GC/MS) by Method 8260B WG1445419 1 03/16/20 09:14 03/17/20 17:49 JHH Mt. Juliet, obtaile Organic Compounds (GC/MS) by Method 8260B WG145419 1 03/16/20 09:14 03/17/20 17:49 JHH Mt. Juliet, obtaile Organic Compounds (GC/MS) by Method 8260B WG145419 1 03/16/20 09:14 03/17/20 17:49 JHH Mt. J	ethod	Batch	Dilution	Preparation	Analysis	Analyst	Location
tet Chemistry by Method 300.0 WG1445292 1 03/17/20 20:08 03/18/20 05:26 ELN Mt. Juliet, obtaile Organic Compounds (GC) by Method 8015D/GRO WG1445199 1 03/16/20 09:14 03/17/20 13:02 ACG Mt. Juliet, obtaile Organic Compounds (GC/MS) by Method 8260B WG1445419 1 03/16/20 09:14 03/17/20 17:30 JHH Mt. Juliet, emi-Volatile Organic Compounds (GC) by Method 8015 WG1447038 1 03/19/20 16:24 03/20/20 10:32 FM Mt. Juliet, obtaile Organic Compounds (GC) by Method 8015 Collected by Collected date/time Received date/time Adrian 03/10/20 11:20 03/13/20 08:00 Collected by Collected date/time date/time date/time date/time date/time date/time date/time date/time date/time Collected Sylvanos (GC) by Method 8015 Mt. Juliet, obtaile Organic Compounds (GC) by Method 8015D/GRO WG1445199 1 03/17/20 20:08 03/18/20 05:44 ELN Mt. Juliet, obtaile Organic Compounds (GC/MS) by Method 8260B WG1445499 1 03/16/20 09:14 03/17/20 13:26 ACG Mt. Juliet, obtaile Organic Compounds (GC/MS) by Method 8260B WG1445499 1 03/16/20 09:14 03/17/20 17:49 JHH Mt. Juliet, obtaile Organic Compounds (GC/MS) by Method 8260B				date/time	date/time		
Delatile Organic Compounds (GC) by Method 8015D/GRO WG1445199 1 03/16/20 09:14 03/17/20 13:02 ACG Mt. Juliet, Delatile Organic Compounds (GC/MS) by Method 8260B WG1445419 1 03/16/20 09:14 03/17/20 17:30 JHH Mt. Juliet, Principal of the principal of the principal of the politic organic Compounds (GC) by Method 8015 WG1447038 1 03/19/20 16:24 03/20/20 10:32 FM Mt. Juliet, Collected by Collected date/time Received date/time Adrian 03/10/20 11:20 03/13/20 08:00	otal Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, T
Method 8260B WG1445419 1 03/16/20 09:14 03/17/20 17:30	et Chemistry by Method 300.0	WG1445292	1	03/17/20 20:08	03/18/20 05:26	ELN	Mt. Juliet, T
Delatile Organic Compounds (GC/MS) by Method 8260B WG1445419 1 03/16/20 09:14 03/17/20 17:30	platile Organic Compounds (GC) by Method 8015D/GRO	WG1445199	1	03/16/20 09:14	03/17/20 13:02	ACG	Mt. Juliet, T
Collected by Collected date/time Received date/time Adrian O3/19/20 16:24 O3/20/20 10:32 FM Mt. Juliet,			1	03/16/20 09:14			Mt. Juliet, T
Adrian 03/10/20 11:20 03/13/20 08:00 ethod ethod Batch Dilution Preparation date/time date/time date/time obtail Solids by Method 2540 G-2011 WG1445651 1 03/19/20 00:34 03/19/20 00:43 KBC Mt. Juliet, et Chemistry by Method 300.0 WG1445292 1 03/17/20 20:08 03/18/20 05:44 ELN Mt. Juliet, oblatile Organic Compounds (GC) by Method 8015D/GRO WG1445419 1 03/16/20 09:14 03/17/20 13:26 ACG Mt. Juliet, oblatile Organic Compounds (GC/MS) by Method 8260B WG1445419 1 03/16/20 09:14 03/17/20 17:49 JHH Mt. Juliet,	, ,	WG1447038	1				Mt. Juliet, T
Adrian 03/10/20 11:20 03/13/20 08:00 ethod ethod Batch Dilution Preparation date/time date/time date/time obtail Solids by Method 2540 G-2011 WG1445651 1 03/19/20 00:34 03/19/20 00:43 KBC Mt. Juliet, et Chemistry by Method 300.0 WG1445292 1 03/17/20 20:08 03/18/20 05:44 ELN Mt. Juliet, oblatile Organic Compounds (GC) by Method 8015D/GRO WG1445419 1 03/16/20 09:14 03/17/20 13:26 ACG Mt. Juliet, oblatile Organic Compounds (GC/MS) by Method 8260B WG1445419 1 03/16/20 09:14 03/17/20 17:49 JHH Mt. Juliet,				Collected by	Collected data/timo	Received da	te/time
Batch Dilution Preparation Analysis Analyst Location date/time date/time date/time total Solids by Method 2540 G-2011 WG1445651 1 03/19/20 00:34 03/19/20 00:43 KBC Mt. Juliet, are Chemistry by Method 300.0 WG1445292 1 03/17/20 20:08 03/18/20 05:44 ELN Mt. Juliet, olatile Organic Compounds (GC) by Method 8015D/GRO WG1445199 1 03/16/20 09:14 03/17/20 13:26 ACG Mt. Juliet, olatile Organic Compounds (GC/MS) by Method 8260B WG1445419 1 03/16/20 09:14 03/17/20 17:49 JHH Mt. Juliet, olatile Organic Compounds (GC/MS) by Method 8260B	NH-11E (3-4') L1199114-55 Solid			•			
tal Solids by Method 2540 G-2011 WG1445651 1 03/19/20 00:34 03/19/20 00:43 KBC Mt. Juliet, et Chemistry by Method 300.0 WG1445292 1 03/17/20 20:08 03/18/20 05:44 ELN Mt. Juliet, olatile Organic Compounds (GC) by Method 8015D/GRO WG1445199 1 03/16/20 09:14 03/17/20 13:26 ACG Mt. Juliet, olatile Organic Compounds (GC/MS) by Method 8260B WG1445419 1 03/16/20 09:14 03/17/20 17:49 JHH Mt. Juliet,	ethod	Batch	Dilution	Preparation	Analysis	Analyst	Location
et Chemistry by Method 300.0 WG1445292 1 03/17/20 20:08 03/18/20 05:44 ELN Mt. Juliet, olatile Organic Compounds (GC) by Method 8015D/GRO WG1445199 1 03/16/20 09:14 03/17/20 13:26 ACG Mt. Juliet, olatile Organic Compounds (GC/MS) by Method 8260B WG1445419 1 03/16/20 09:14 03/17/20 17:49 JHH Mt. Juliet,				date/time	date/time		
Diatile Organic Compounds (GC) by Method 8015D/GRO WG1445199 1 03/16/20 09:14 03/17/20 13:26 ACG Mt. Juliet, olatile Organic Compounds (GC/MS) by Method 8260B WG1445419 1 03/16/20 09:14 03/17/20 17:49 JHH Mt. Juliet,	otal Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, T
olatile Organic Compounds (GC/MS) by Method 8260B WG1445419 1 03/16/20 09:14 03/17/20 17:49 JHH Mt. Juliet,	et Chemistry by Method 300.0	WG1445292	1	03/17/20 20:08	03/18/20 05:44	ELN	Mt. Juliet, T
	olatile Organic Compounds (GC) by Method 8015D/GRO	WG1445199	1	03/16/20 09:14	03/17/20 13:26	ACG	Mt. Juliet, T
emi-Volatile Organic Compounds (GC) by Method 8015 WG1447038 1 03/19/20 16:24 03/20/20 10:18 FM Mt. Juliet,	platile Organic Compounds (GC/MS) by Method 8260B	WG1445419	1	03/16/20 09:14	03/17/20 17:49	JHH	Mt. Juliet, T
	emi-Volatile Organic Compounds (GC) by Method 8015	WG1447038	1	03/19/20 16:24	03/20/20 10:18	FM	Mt. Juliet, T



















	Collected by	Collected date/time	Received date/time			
T-11 (1-2') L1199114-56 Solid			Adrian	03/10/20 11:30	03/13/20 08:	:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	5	03/17/20 20:08	03/18/20 06:02	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445199	1	03/16/20 09:14	03/17/20 13:50	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445419	1	03/16/20 09:14	03/17/20 18:08	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447038	1	03/19/20 16:24	03/20/20 00:58	KME	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
T-11 (14-15') L1199114-57 Solid			Adrian	03/10/20 12:10	03/13/20 08:	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	1	03/17/20 20:08	03/18/20 06:20	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445128	1	03/16/20 09:14	03/17/20 09:35	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445419	1	03/16/20 09:14	03/17/20 18:27	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447038	1	03/19/20 16:24	03/20/20 09:52	FM	Mt. Juliet, TN



















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

















Chris McCord Project Manager

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Collected date/time: 03/03/20 11:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	95.9		1	03/19/2020 01:48	WG1445642



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	2.79	ВЈ	0.829	10.4	1	03/18/2020 20:10	WG1444779



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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	0.0568	ВЈ	0.0226	0.104	1	03/17/2020 00:27	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	93.3			77.0-120		03/17/2020 00:27	WG1445119



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

•	•		•				
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000417	0.00104	1	03/17/2020 00:32	WG1445122
Toluene	U		0.00130	0.00521	1	03/17/2020 00:32	WG1445122
Ethylbenzene	U		0.000553	0.00261	1	03/17/2020 00:32	WG1445122
Total Xylenes	U		0.00498	0.00678	1	03/17/2020 00:32	WG1445122
(S) Toluene-d8	98.4			75.0-131		03/17/2020 00:32	WG1445122
(S) 4-Bromofluorobenzene	109			67.0-138		03/17/2020 00:32	WG1445122
(S) 1,2-Dichloroethane-d4	132	J1		70.0-130		03/17/2020 00:32	WG1445122



Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	7.86		1.68	4.17	1	03/18/2020 21:53	WG1445151
C28-C40 Oil Range	29.7		0.286	4.17	1	03/18/2020 21:53	WG1445151
(S) o-Terphenyl	66.7			18.0-148		03/18/2020 21:53	WG1445151

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Collected date/time: 03/03/20 11:10

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	95.1		1	03/19/2020 01:48	WG1445642



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	106		0.836	10.5	1	03/18/2020 20:20	<u>WG1444779</u>



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	0.0258	<u>J</u>	0.0228	0.105	1	03/17/2020 13:18	WG1445448
(S) a,a,a-Trifluorotoluene(FID)	94.6			77.0-120		03/17/2020 13:18	WG1445448



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000421	0.00105	1	03/17/2020 00:52	WG1445122
Toluene	U		0.00131	0.00526	1	03/17/2020 00:52	WG1445122
Ethylbenzene	U		0.000557	0.00263	1	03/17/2020 00:52	WG1445122
Total Xylenes	U		0.00503	0.00683	1	03/17/2020 00:52	WG1445122
(S) Toluene-d8	101			75.0-131		03/17/2020 00:52	WG1445122
(S) 4-Bromofluorobenzene	117			67.0-138		03/17/2020 00:52	WG1445122
(S) 1,2-Dichloroethane-d4	122			70.0-130		03/17/2020 00:52	WG1445122



Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	8.59		1.69	4.21	1	03/18/2020 22:05	WG1445151
C28-C40 Oil Range	30.2		0.288	4.21	1	03/18/2020 22:05	WG1445151
(S) o-Terphenyl	75.5			18.0-148		03/18/2020 22:05	WG1445151

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Collected date/time: 03/03/20 11:20

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	96.0		1	03/19/2020 01:48	WG1445642



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	2.64	<u>B J</u>	0.828	10.4	1	03/18/2020 20:29	WG1444779



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	0.0422	ВЈ	0.0226	0.104	1	03/17/2020 01:09	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	95.2			77.0-120		03/17/2020 01:09	WG1445119



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000417	0.00104	1	03/17/2020 01:12	WG1445122
Toluene	U		0.00130	0.00521	1	03/17/2020 01:12	WG1445122
Ethylbenzene	U		0.000552	0.00260	1	03/17/2020 01:12	WG1445122
Total Xylenes	U		0.00498	0.00677	1	03/17/2020 01:12	WG1445122
(S) Toluene-d8	99.6			75.0-131		03/17/2020 01:12	WG1445122
(S) 4-Bromofluorobenzene	115			67.0-138		03/17/2020 01:12	WG1445122
(S) 1,2-Dichloroethane-d4	119			70.0-130		03/17/2020 01:12	WG1445122



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	7.90		1.68	4.17	1	03/18/2020 21:40	WG1445151
C28-C40 Oil Range	28.0		0.285	4.17	1	03/18/2020 21:40	WG1445151
(S) o-Terphenyl	69.6			18.0-148		03/18/2020 21:40	WG1445151

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Collected date/time: 03/03/20 11:30

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	94.3		1	03/19/2020 01:48	WG1445642



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	285		0.843	10.6	1	03/18/2020 20:39	WG1444779



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		0.0230	0.106	1	03/17/2020 13:39	WG1445448
(S) a,a,a-Trifluorotoluene(FID)	94.5			77.0-120		03/17/2020 13:39	WG1445448



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000424	0.00106	1	03/17/2020 01:32	WG1445122
Toluene	U		0.00133	0.00530	1	03/17/2020 01:32	WG1445122
Ethylbenzene	U		0.000562	0.00265	1	03/17/2020 01:32	WG1445122
Total Xylenes	U		0.00507	0.00689	1	03/17/2020 01:32	WG1445122
(S) Toluene-d8	101			75.0-131		03/17/2020 01:32	WG1445122
(S) 4-Bromofluorobenzene	112			67.0-138		03/17/2020 01:32	WG1445122
(S) 1,2-Dichloroethane-d4	117			70.0-130		03/17/2020 01:32	WG1445122

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.16	<u>J</u>	1.71	4.24	1	03/17/2020 22:04	WG1445151
C28-C40 Oil Range	7.64		0.291	4.24	1	03/17/2020 22:04	WG1445151
(S) o-Terphenyl	59.0			18.0-148		03/17/2020 22:04	WG1445151

ONE LAB. NAPage 100 of 425

Collected date/time: 03/05/20 11:50

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	95.1		1	03/19/2020 01:48	WG1445642



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	38.0		0.836	10.5	1	03/18/2020 20:48	WG1444779



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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	0.0350	BJ	0.0228	0.105	1	03/17/2020 01:50	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	94.8			77.0-120		03/17/2020 01:50	<u>WG1445119</u>



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000421	0.00105	1	03/17/2020 01:52	WG1445122
Toluene	U		0.00131	0.00526	1	03/17/2020 01:52	WG1445122
Ethylbenzene	U		0.000557	0.00263	1	03/17/2020 01:52	WG1445122
Total Xylenes	U		0.00503	0.00684	1	03/17/2020 01:52	WG1445122
(S) Toluene-d8	102			<i>75.0-131</i>		03/17/2020 01:52	WG1445122
(S) 4-Bromofluorobenzene	109			67.0-138		03/17/2020 01:52	WG1445122
(S) 1,2-Dichloroethane-d4	115			70.0-130		03/17/2020 01:52	WG1445122



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.69	4.21	1	03/17/2020 21:00	WG1445151
C28-C40 Oil Range	4.04	<u>J</u>	0.288	4.21	1	03/17/2020 21:00	WG1445151
(S) o-Terphenyl	64.4			18.0-148		03/17/2020 21:00	WG1445151

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Collected date/time: 03/05/20 12:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	91.1		1	03/19/2020 01:48	WG1445642



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	628		0.873	11.0	1	03/18/2020 10:55	WG1444780



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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	0.0649	ВJ	0.0238	0.110	1	03/17/2020 02:10	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	93.5			77.0-120		03/17/2020 02:10	WG1445119



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000457	0.00114	1.04	03/17/2020 02:13	WG1445122
oluene	U		0.00143	0.00571	1.04	03/17/2020 02:13	WG1445122
Ethylbenzene	U		0.000605	0.00285	1.04	03/17/2020 02:13	WG1445122
Total Xylenes	U		0.00546	0.00742	1.04	03/17/2020 02:13	WG1445122
(S) Toluene-d8	99.4			75.0-131		03/17/2020 02:13	WG1445122
(S) 4-Bromofluorobenzene	113			67.0-138		03/17/2020 02:13	WG1445122
(S) 1,2-Dichloroethane-d4	115			70.0-130		03/17/2020 02:13	WG1445122



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.77	4.39	1	03/17/2020 21:13	WG1445151
C28-C40 Oil Range	3.13	<u>J</u>	0.301	4.39	1	03/17/2020 21:13	WG1445151
(S) o-Terphenyl	70.9			18.0-148		03/17/2020 21:13	WG1445151

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Collected date/time: 03/05/20 12:10

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	90.7		1	03/19/2020 01:48	WG1445642



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	2630		4.39	55.1	5	03/18/2020 11:14	WG1444780



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	0.0670	<u>J</u>	0.0239	0.110	1	03/17/2020 13:59	WG1445448
(S) a,a,a-Trifluorotoluene(FID)	92.1			77.0-120		03/17/2020 13:59	<u>WG1445448</u>



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Senzene	U		0.000441	0.00110	1	03/17/2020 02:33	WG1445122
oluene	U		0.00138	0.00551	1	03/17/2020 02:33	WG1445122
Ethylbenzene	U		0.000584	0.00276	1	03/17/2020 02:33	WG1445122
Total Xylenes	U		0.00527	0.00717	1	03/17/2020 02:33	WG1445122
(S) Toluene-d8	102			75.0-131		03/17/2020 02:33	WG1445122
(S) 4-Bromofluorobenzene	112			67.0-138		03/17/2020 02:33	WG1445122
(S) 1,2-Dichloroethane-d4	118			70.0-130		03/17/2020 02:33	WG1445122



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.78	4.41	1	03/17/2020 20:35	WG1445151
C28-C40 Oil Range	7.83		0.302	4.41	1	03/17/2020 20:35	WG1445151
(S) o-Terphenyl	68.8			18.0-148		03/17/2020 20:35	WG1445151

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Collected date/time: 03/05/20 12:20

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	90.6		1	03/19/2020 01:48	WG1445642



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	233		0.877	11.0	1	03/18/2020 11:23	WG1444780



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	0.0347	BJ	0.0240	0.110	1	03/17/2020 02:52	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	93.8			77.0-120		03/17/2020 02:52	<u>WG1445119</u>



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000442	0.00110	1	03/17/2020 02:53	WG1445122
Toluene	U		0.00138	0.00552	1	03/17/2020 02:53	WG1445122
Ethylbenzene	U		0.000585	0.00276	1	03/17/2020 02:53	WG1445122
Total Xylenes	U		0.00528	0.00717	1	03/17/2020 02:53	WG1445122
(S) Toluene-d8	102			75.0-131		03/17/2020 02:53	WG1445122
(S) 4-Bromofluorobenzene	113			67.0-138		03/17/2020 02:53	WG1445122
(S) 1,2-Dichloroethane-d4	114			70.0-130		03/17/2020 02:53	WG1445122



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.78	4.42	1	03/17/2020 20:48	WG1445151
C28-C40 Oil Range	1.56	<u>J</u>	0.302	4.42	1	03/17/2020 20:48	WG1445151
(S) o-Terphenvl	65.5			18.0-148		03/17/2020 20:48	WG1445151

ONE LAB. NAPagev104 of 125

Collected date/time: 03/05/20 13:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	97.0		1	03/19/2020 01:36	<u>WG1445643</u>



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	38.2		0.820	10.3	1	03/18/2020 11:33	WG1444780



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	0.0321	ВЈ	0.0224	0.103	1	03/17/2020 03:12	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	94.5			77.0-120		03/17/2020 03:12	<u>WG1445119</u>



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000412	0.00103	1	03/17/2020 03:13	WG1445122
Toluene	U		0.00129	0.00515	1	03/17/2020 03:13	WG1445122
Ethylbenzene	U		0.000546	0.00258	1	03/17/2020 03:13	WG1445122
Total Xylenes	U		0.00493	0.00670	1	03/17/2020 03:13	WG1445122
(S) Toluene-d8	104			75.0-131		03/17/2020 03:13	WG1445122
(S) 4-Bromofluorobenzene	120			67.0-138		03/17/2020 03:13	WG1445122
(S) 1,2-Dichloroethane-d4	113			70.0-130		03/17/2020 03:13	WG1445122



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	133		33.2	82.5	20	03/17/2020 23:32	WG1445151
C28-C40 Oil Range	391		5.65	82.5	20	03/17/2020 23:32	WG1445151
(S) o-Terphenyl	0.000	J7		18.0-148		03/17/2020 23:32	WG1445151

ONE LAB. NAPage 105 of 425

Collected date/time: 03/05/20 13:10

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	90.6		1	03/19/2020 01:36	WG1445643



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	84.6		0.878	11.0	1	03/18/2020 11:42	WG1444780



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		0.0240	0.110	1	03/17/2020 14:20	WG1445448
(S) a,a,a-Trifluorotoluene(FID)	94.0			77.0-120		03/17/2020 14:20	WG1445448



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000442	0.00110	1	03/17/2020 03:34	WG1445122
Toluene	U		0.00138	0.00552	1	03/17/2020 03:34	WG1445122
Ethylbenzene	U		0.000585	0.00276	1	03/17/2020 03:34	WG1445122
Total Xylenes	U		0.00528	0.00717	1	03/17/2020 03:34	WG1445122
(S) Toluene-d8	103			75.0-131		03/17/2020 03:34	WG1445122
(S) 4-Bromofluorobenzene	113			67.0-138		03/17/2020 03:34	WG1445122
(S) 1,2-Dichloroethane-d4	107			70.0-130		03/17/2020 03:34	WG1445122

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	309		35.5	88.3	20	03/17/2020 23:57	WG1445151
C28-C40 Oil Range	793		6.05	88.3	20	03/17/2020 23:57	WG1445151
(S) o-Terphenyl	0.000	J7		18.0-148		03/17/2020 23:57	WG1445151

ONE LAB. NAPagev106 of 125

Collected date/time: 03/05/20 11:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	95.9		1	03/19/2020 01:36	WG1445643



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	2.50	<u>J</u>	0.829	10.4	1	03/18/2020 11:52	WG1444780



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	0.0312	ВJ	0.0226	0.104	1	03/17/2020 03:53	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	95.4			77.0-120		03/17/2020 03:53	<u>WG1445119</u>



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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		0.000417	0.00104	1	03/17/2020 03:54	WG1445122
Toluene	U		0.00130	0.00521	1	03/17/2020 03:54	WG1445122
Ethylbenzene	U		0.000553	0.00261	1	03/17/2020 03:54	WG1445122
Total Xylenes	U		0.00498	0.00678	1	03/17/2020 03:54	WG1445122
(S) Toluene-d8	104			75.0-131		03/17/2020 03:54	WG1445122
(S) 4-Bromofluorobenzene	117			67.0-138		03/17/2020 03:54	WG1445122
(S) 1,2-Dichloroethane-d4	112			70.0-130		03/17/2020 03:54	WG1445122

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	9.00		1.68	4.17	1	03/18/2020 22:18	WG1445151
C28-C40 Oil Range	33.3		0.286	4.17	1	03/18/2020 22:18	WG1445151
(S) o-Terphenyl	73.7			18.0-148		03/18/2020 22:18	WG1445151

ONE LAB. NAPagev107 of 125

Collected date/time: 03/05/20 11:10

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	94.6		1	03/19/2020 01:36	<u>WG1445643</u>



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	209		0.841	10.6	1	03/18/2020 12:01	WG1444780



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		0.0230	0.106	1	03/17/2020 14:41	WG1445448
(S) a,a,a-Trifluorotoluene(FID)	94.3			77.0-120		03/17/2020 14:41	WG1445448



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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		0.000423	0.00106	1	03/17/2020 04:14	WG1445122
Toluene	U		0.00132	0.00529	1	03/17/2020 04:14	WG1445122
Ethylbenzene	U		0.000561	0.00264	1	03/17/2020 04:14	WG1445122
Total Xylenes	U		0.00506	0.00687	1	03/17/2020 04:14	WG1445122
(S) Toluene-d8	102			75.0-131		03/17/2020 04:14	WG1445122
(S) 4-Bromofluorobenzene	115			67.0-138		03/17/2020 04:14	WG1445122
(S) 1,2-Dichloroethane-d4	110			70.0-130		03/17/2020 04:14	WG1445122



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.18	<u>J</u>	1.70	4.23	1	03/18/2020 19:46	WG1445151
C28-C40 Oil Range	8.05		0.290	4.23	1	03/18/2020 19:46	WG1445151
(S) o-Terphenyl	69.3			18.0-148		03/18/2020 19:46	WG1445151

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Collected date/time: 03/05/20 11:20

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	97.8		1	03/19/2020 01:36	<u>WG1445643</u>



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	19.2		0.813	10.2	1	03/18/2020 12:49	<u>WG1444780</u>



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	0.0273	ВЈ	0.0222	0.102	1	03/17/2020 04:34	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	95.4			77.0-120		03/17/2020 04:34	WG1445119



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000409	0.00102	1	03/17/2020 04:35	WG1445122
Toluene	U		0.00128	0.00511	1	03/17/2020 04:35	WG1445122
Ethylbenzene	U		0.000542	0.00256	1	03/17/2020 04:35	WG1445122
Total Xylenes	U		0.00489	0.00665	1	03/17/2020 04:35	WG1445122
(S) Toluene-d8	102			75.0-131		03/17/2020 04:35	WG1445122
(S) 4-Bromofluorobenzene	115			67.0-138		03/17/2020 04:35	WG1445122
(S) 1,2-Dichloroethane-d4	115			70.0-130		03/17/2020 04:35	WG1445122



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	23.8		1.65	4.09	1	03/18/2020 19:59	WG1445151
C28-C40 Oil Range	63.4		0.280	4.09	1	03/18/2020 19:59	WG1445151
(S) o-Terphenyl	61.3			18.0-148		03/18/2020 19:59	WG1445151

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Collected date/time: 03/05/20 11:30

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	96.1		1	03/19/2020 01:36	<u>WG1445643</u>



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	33.7		0.827	10.4	1	03/18/2020 12:58	WG1444780



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	0.0362	ВЈ	0.0226	0.104	1	03/17/2020 04:55	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	95.9			77.0-120		03/17/2020 04:55	WG1445119



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000416	0.00104	1	03/17/2020 04:55	WG1445122
Toluene	U		0.00130	0.00520	1	03/17/2020 04:55	WG1445122
Ethylbenzene	U		0.000551	0.00260	1	03/17/2020 04:55	WG1445122
otal Xylenes	U		0.00497	0.00676	1	03/17/2020 04:55	WG1445122
(S) Toluene-d8	103			75.0-131		03/17/2020 04:55	WG1445122
(S) 4-Bromofluorobenzene	119			67.0-138		03/17/2020 04:55	WG1445122
(S) 1,2-Dichloroethane-d4	113			70.0-130		03/17/2020 04:55	WG1445122

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	18.5		1.67	4.16	1	03/17/2020 21:26	WG1445151
C28-C40 Oil Range	6.18		0.285	4.16	1	03/17/2020 21:26	WG1445151
(S) o-Terphenyl	40.4			18.0-148		03/17/2020 21:26	WG1445151

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Collected date/time: 03/05/20 11:50

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	90.4		1	03/19/2020 01:36	<u>WG1445643</u>



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	569		4.40	55.3	5	03/18/2020 13:08	WG1444780



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	0.0265	ВЈ	0.0240	0.111	1	03/17/2020 05:15	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	95.0			77.0-120		03/17/2020 05:15	WG1445119



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000442	0.00111	1	03/17/2020 05:15	WG1445122
Toluene	U		0.00138	0.00553	1	03/17/2020 05:15	WG1445122
Ethylbenzene	U		0.000586	0.00277	1	03/17/2020 05:15	WG1445122
Total Xylenes	U		0.00529	0.00719	1	03/17/2020 05:15	WG1445122
(S) Toluene-d8	103			<i>75.0-131</i>		03/17/2020 05:15	WG1445122
(S) 4-Bromofluorobenzene	115			67.0-138		03/17/2020 05:15	WG1445122
(S) 1,2-Dichloroethane-d4	116			70.0-130		03/17/2020 05:15	WG1445122



Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1250		35.6	88.5	20	03/18/2020 00:15	WG1445151
C28-C40 Oil Range	969		6.06	88.5	20	03/18/2020 00:15	WG1445151
(S) o-Terphenyl	0.000	J7		18.0-148		03/18/2020 00:15	WG1445151







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Collected date/time: 03/05/20 12:20

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	93.4		1	03/19/2020 01:36	<u>WG1445643</u>



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	722		0.851	10.7	1	03/18/2020 13:17	WG1444780



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	0.0251	<u>J</u>	0.0232	0.107	1	03/17/2020 15:01	WG1445448
(S) a,a,a-Trifluorotoluene(FID)	95.1			77.0-120		03/17/2020 15:01	<u>WG1445448</u>



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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		0.000428	0.00107	1	03/17/2020 05:35	WG1445122
Toluene	U		0.00134	0.00535	1	03/17/2020 05:35	WG1445122
Ethylbenzene	U		0.000568	0.00268	1	03/17/2020 05:35	WG1445122
Total Xylenes	U		0.00512	0.00696	1	03/17/2020 05:35	WG1445122
(S) Toluene-d8	103			75.0-131		03/17/2020 05:35	WG1445122
(S) 4-Bromofluorobenzene	114			67.0-138		03/17/2020 05:35	WG1445122
(S) 1,2-Dichloroethane-d4	114			70.0-130		03/17/2020 05:35	WG1445122



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	215		1.72	4.28	1	03/17/2020 21:38	WG1445151
C28-C40 Oil Range	156		0.293	4.28	1	03/17/2020 21:38	WG1445151
(S) o-Terphenyl	71.0			18.0-148		03/17/2020 21:38	WG1445151

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Collected date/time: 03/05/20 13:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	95.7		1	03/19/2020 01:36	<u>WG1445643</u>



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	1.38	<u>J</u>	0.830	10.4	1	03/18/2020 13:27	<u>WG1444780</u>



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	0.0323	<u>B J</u>	0.0227	0.104	1	03/17/2020 07:01	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	96.4			77.0-120		03/17/2020 07:01	<u>WG1445119</u>



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

•	'	·	•				
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000418	0.00104	1	03/17/2020 05:56	WG1445122
Toluene	U		0.00131	0.00522	1	03/17/2020 05:56	WG1445122
Ethylbenzene	U		0.000554	0.00261	1	03/17/2020 05:56	WG1445122
Total Xylenes	U		0.00499	0.00679	1	03/17/2020 05:56	WG1445122
(S) Toluene-d8	102			75.0-131		03/17/2020 05:56	WG1445122
(S) 4-Bromofluorobenzene	115			67.0-138		03/17/2020 05:56	WG1445122
(S) 1,2-Dichloroethane-d4	107			70.0-130		03/17/2020 05:56	WG1445122



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.54	<u>J</u>	1.68	4.18	1	03/19/2020 23:30	WG1446556
C28-C40 Oil Range	9.51		0.286	4.18	1	03/19/2020 23:30	WG1446556
(S) o-Terphenyl	66.8			18.0-148		03/19/2020 23:30	WG1446556

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Collected date/time: 03/05/20 13:10

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	95.6		1	03/19/2020 01:36	<u>WG1445643</u>



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	3.41	<u>J</u>	0.832	10.5	1	03/18/2020 13:36	WG1444780



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	0.0247	ВJ	0.0227	0.105	1	03/17/2020 07:22	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	95.3			77.0-120		03/17/2020 07:22	<u>WG1445119</u>



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000419	0.00105	1	03/17/2020 06:16	WG1445122
Toluene	U		0.00131	0.00523	1	03/17/2020 06:16	WG1445122
Ethylbenzene	U		0.000555	0.00262	1	03/17/2020 06:16	WG1445122
Total Xylenes	U		0.00500	0.00680	1	03/17/2020 06:16	WG1445122
(S) Toluene-d8	103			<i>75.0-131</i>		03/17/2020 06:16	WG1445122
(S) 4-Bromofluorobenzene	119			67.0-138		03/17/2020 06:16	WG1445122
(S) 1,2-Dichloroethane-d4	110			70.0-130		03/17/2020 06:16	WG1445122

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Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.68	4.19	1	03/19/2020 21:32	WG1446556
C28-C40 Oil Range	3.52	J	0.287	4.19	1	03/19/2020 21:32	WG1446556
(S) o-Terphenyl	66.5			18.0-148		03/19/2020 21:32	WG1446556

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Collected date/time: 03/05/20 11:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	93.4		1	03/19/2020 01:27	WG1445647



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1.27	<u>J</u>	0.851	10.7	1	03/18/2020 13:46	WG1444780



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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	0.0324	BJ	0.0232	0.107	1	03/17/2020 07:42	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	94.5			77.0-120		03/17/2020 07:42	<u>WG1445119</u>



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000428	0.00107	1	03/17/2020 06:36	WG1445122
Toluene	U		0.00134	0.00535	1	03/17/2020 06:36	WG1445122
Ethylbenzene	U		0.000567	0.00268	1	03/17/2020 06:36	WG1445122
Total Xylenes	U		0.00512	0.00696	1	03/17/2020 06:36	WG1445122
(S) Toluene-d8	101			75.0-131		03/17/2020 06:36	WG1445122
(S) 4-Bromofluorobenzene	115			67.0-138		03/17/2020 06:36	WG1445122
(S) 1,2-Dichloroethane-d4	111			70.0-130		03/17/2020 06:36	WG1445122



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.72	4.28	1	03/19/2020 21:45	WG1446556
C28-C40 Oil Range	3.00	<u>J</u>	0.293	4.28	1	03/19/2020 21:45	WG1446556
(S) o-Terphenyl	62.9			18.0-148		03/19/2020 21:45	WG1446556

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Collected date/time: 03/05/20 11:10

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	92.2		1	03/19/2020 01:27	WG1445647



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	24.0		0.862	10.8	1	03/18/2020 13:55	<u>WG1444780</u>



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	0.0788	ВЈ	0.0235	0.108	1	03/17/2020 08:03	WG1445119
(S) a,a,a-Trifluorotoluene(FID)	92.8			77.0-120		03/17/2020 08:03	WG1445119



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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		0.000434	0.00108	1	03/17/2020 06:56	WG1445122
Toluene	U		0.00136	0.00542	1	03/17/2020 06:56	WG1445122
Ethylbenzene	U		0.000575	0.00271	1	03/17/2020 06:56	WG1445122
Total Xylenes	U		0.00518	0.00705	1	03/17/2020 06:56	WG1445122
(S) Toluene-d8	103			75.0-131		03/17/2020 06:56	WG1445122
(S) 4-Bromofluorobenzene	114			67.0-138		03/17/2020 06:56	WG1445122
(S) 1,2-Dichloroethane-d4	106			70.0-130		03/17/2020 06:56	WG1445122



Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.75	4.34	1	03/19/2020 21:57	WG1446556
C28-C40 Oil Range	4.33	<u>J</u>	0.297	4.34	1	03/19/2020 21:57	WG1446556
(S) o-Terphenyl	63.0			18.0-148		03/19/2020 21:57	WG1446556

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Collected date/time: 03/05/20 11:20

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	94.5		1	03/19/2020 01:27	WG1445647

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	3.62	<u>J</u>	0.841	10.6	1	03/18/2020 14:24	WG1444780



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	0.0546	<u>B J</u>	0.0230	0.106	1	03/17/2020 01:23	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	96.0			77.0-120		03/17/2020 01:23	<u>WG1445120</u>



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000423	0.00106	1	03/17/2020 15:22	WG1445259
Toluene	U		0.00132	0.00529	1	03/17/2020 15:22	WG1445259
Ethylbenzene	U		0.000561	0.00264	1	03/17/2020 15:22	WG1445259
Total Xylenes	U		0.00506	0.00688	1	03/17/2020 15:22	WG1445259
(S) Toluene-d8	105			75.0-131		03/17/2020 15:22	WG1445259
(S) 4-Bromofluorobenzene	103			67.0-138		03/17/2020 15:22	WG1445259
(S) 1,2-Dichloroethane-d4	99.2			70.0-130		03/17/2020 15:22	WG1445259



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	16.4		1.70	4.23	1	03/20/2020 07:45	WG1446556
C28-C40 Oil Range	53.2		0.290	4.23	1	03/20/2020 07:45	WG1446556
(S) o-Terphenyl	47.2			18.0-148		03/20/2020 07:45	WG1446556



Collected date/time: 03/05/20 11:30

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	87.5		1	03/19/2020 01:27	<u>WG1445647</u>

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	1950		4.55	57.1	5	03/18/2020 14:34	<u>WG1444780</u>



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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	0.0493	ВЈ	0.0248	0.114	1	03/17/2020 01:44	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	96.7			77.0-120		03/17/2020 01:44	WG1445120



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000457	0.00114	1	03/17/2020 15:41	WG1445259
Toluene	U		0.00143	0.00571	1	03/17/2020 15:41	WG1445259
Ethylbenzene	U		0.000606	0.00286	1	03/17/2020 15:41	WG1445259
Total Xylenes	U		0.00546	0.00743	1	03/17/2020 15:41	WG1445259
(S) Toluene-d8	105			75.0-131		03/17/2020 15:41	WG1445259
(S) 4-Bromofluorobenzene	99.6			67.0-138		03/17/2020 15:41	WG1445259
(S) 1,2-Dichloroethane-d4	100			70.0-130		03/17/2020 15:41	WG1445259



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	8.71		1.84	4.57	1	03/19/2020 23:56	WG1446556
C28-C40 Oil Range	18.5		0.313	4.57	1	03/19/2020 23:56	WG1446556
(S) o-Terphenyl	67.5			18.0-148		03/19/2020 23:56	WG1446556

ONE LAB. NAPage 118 of 425

Collected date/time: 03/05/20 11:50

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	90.9		1	03/19/2020 01:27	WG1445647



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	1100		4.38	55.0	5	03/18/2020 14:43	WG1444780



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	0.0522	ВЈ	0.0239	0.110	1	03/17/2020 02:04	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	96.3			77.0-120		03/17/2020 02:04	WG1445120



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000440	0.00110	1	03/17/2020 16:00	WG1445259
Toluene	U		0.00138	0.00550	1	03/17/2020 16:00	WG1445259
Ethylbenzene	U		0.000583	0.00275	1	03/17/2020 16:00	WG1445259
Total Xylenes	U		0.00526	0.00715	1	03/17/2020 16:00	WG1445259
(S) Toluene-d8	105			75.0-131		03/17/2020 16:00	WG1445259
(S) 4-Bromofluorobenzene	98.8			67.0-138		03/17/2020 16:00	WG1445259
(S) 1,2-Dichloroethane-d4	101			70.0-130		03/17/2020 16:00	WG1445259



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.45	<u>J</u>	1.77	4.40	1	03/19/2020 22:40	WG1446556
C28-C40 Oil Range	8.45		0.302	4.40	1	03/19/2020 22:40	WG1446556
(S) o-Terphenyl	68.2			18.0-148		03/19/2020 22:40	WG1446556

ONE LAB. NAPagev119 of 125

Collected date/time: 03/05/20 13:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	95.6		1	03/19/2020 01:27	WG1445647



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	446		0.832	10.5	1	03/18/2020 14:53	WG1444780



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	0.0392	ВЈ	0.0227	0.105	1	03/17/2020 02:25	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	96.6			77.0-120		03/17/2020 02:25	WG1445120



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

<u> </u>		, ,					
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000419	0.00105	1	03/17/2020 16:19	WG1445259
Toluene	U		0.00131	0.00523	1	03/17/2020 16:19	WG1445259
Ethylbenzene	U		0.000555	0.00262	1	03/17/2020 16:19	WG1445259
Total Xylenes	U		0.00500	0.00680	1	03/17/2020 16:19	WG1445259
(S) Toluene-d8	107			75.0-131		03/17/2020 16:19	WG1445259
(S) 4-Bromofluorobenzene	100			67.0-138		03/17/2020 16:19	WG1445259
(S) 1,2-Dichloroethane-d4	98.8			70.0-130		03/17/2020 16:19	WG1445259



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.76	<u>J</u>	1.68	4.19	1	03/20/2020 07:19	WG1446556
C28-C40 Oil Range	1.61	<u>J</u>	0.287	4.19	1	03/20/2020 07:19	WG1446556
(S) o-Terphenyl	74.3			18.0-148		03/20/2020 07:19	WG1446556

ONE LAB. NAPage 120 of 425

Collected date/time: 03/05/20 13:10

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	94.7		1	03/19/2020 01:27	WG1445647



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	3.69	<u>J</u>	0.839	10.6	1	03/18/2020 15:02	<u>WG1444780</u>



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	0.0548	BJ	0.0229	0.106	1	03/17/2020 18:13	WG1445660
(S) a,a,a-Trifluorotoluene(FID)	96.5			77.0-120		03/17/2020 18:13	<u>WG1445660</u>



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

<u> </u>	,	, ,	•				
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000422	0.00106	1	03/17/2020 16:38	WG1445259
Toluene	U		0.00132	0.00528	1	03/17/2020 16:38	WG1445259
Ethylbenzene	U		0.000560	0.00264	1	03/17/2020 16:38	WG1445259
Total Xylenes	U		0.00505	0.00686	1	03/17/2020 16:38	WG1445259
(S) Toluene-d8	105			75.0-131		03/17/2020 16:38	WG1445259
(S) 4-Bromofluorobenzene	98.1			67.0-138		03/17/2020 16:38	WG1445259
(S) 1,2-Dichloroethane-d4	101			70.0-130		03/17/2020 16:38	WG1445259



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	9.98		1.70	4.22	1	03/20/2020 00:59	WG1446556
C28-C40 Oil Range	28.0		0.289	4.22	1	03/20/2020 00:59	WG1446556
(S) o-Terphenyl	62.5			18.0-148		03/20/2020 00:59	WG1446556

Collected date/time: 03/06/20 11:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	87.1		1	03/19/2020 01:27	WG1445647



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	1780		9.13	115	10	03/18/2020 00:06	WG1445291



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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	0.0422	ВЈ	0.0249	0.115	1	03/17/2020 06:54	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		03/17/2020 06:54	WG1445120



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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		0.000459	0.00115	1	03/17/2020 16:57	WG1445259
Toluene	U		0.00144	0.00574	1	03/17/2020 16:57	WG1445259
Ethylbenzene	U		0.000608	0.00287	1	03/17/2020 16:57	WG1445259
Total Xylenes	U		0.00549	0.00746	1	03/17/2020 16:57	WG1445259
(S) Toluene-d8	106			75.0-131		03/17/2020 16:57	WG1445259
(S) 4-Bromofluorobenzene	100			67.0-138		03/17/2020 16:57	WG1445259
(S) 1,2-Dichloroethane-d4	100			70.0-130		03/17/2020 16:57	WG1445259



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	7.51		1.85	4.59	1	03/20/2020 00:08	WG1446556
C28-C40 Oil Range	16.9		0.315	4.59	1	03/20/2020 00:08	WG1446556
(S) o-Terphenyl	66.7			18.0-148		03/20/2020 00:08	WG1446556



Collected date/time: 03/06/20 11:20

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	97.4		1	03/19/2020 01:27	<u>WG1445647</u>



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	40.3		0.816	10.3	1	03/18/2020 00:15	WG1445291



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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	0.0408	ВЈ	0.0223	0.103	1	03/17/2020 07:14	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		03/17/2020 07:14	WG1445120



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>				
Analyte	mg/kg		mg/kg	mg/kg		date / time					
Benzene	U		0.000411	0.00103	1	03/17/2020 17:16	WG1445259				
Toluene	U		0.00128	0.00514	1	03/17/2020 17:16	WG1445259				
Ethylbenzene	U		0.000544	0.00257	1	03/17/2020 17:16	WG1445259				
Total Xylenes	U		0.00491	0.00668	1	03/17/2020 17:16	WG1445259				
(S) Toluene-d8	106			75.0-131		03/17/2020 17:16	WG1445259				
(S) 4-Bromofluorobenzene	96.7			67.0-138		03/17/2020 17:16	WG1445259				
(S) 1,2-Dichloroethane-d4	102			70.0-130		03/17/2020 17:16	WG1445259				



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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.19	<u>J</u>	1.65	4.11	1	03/19/2020 23:05	WG1446556
C28-C40 Oil Range	7.68		0.281	4.11	1	03/19/2020 23:05	WG1446556
(S) o-Terphenyl	66.0			18.0-148		03/19/2020 23:05	WG1446556

ONE LAB. NAPagev123 of 125

Collected date/time: 03/06/20 11:30

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	95.2		1	03/19/2020 01:04	WG1445648



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	174		4.18	52.5	5	03/18/2020 00:24	WG1445291



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	0.0377	ВJ	0.0228	0.105	1	03/17/2020 07:35	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		03/17/2020 07:35	WG1445120



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000420	0.00105	1	03/17/2020 17:35	WG1445259
Toluene	U		0.00131	0.00525	1	03/17/2020 17:35	WG1445259
Ethylbenzene	U		0.000556	0.00262	1	03/17/2020 17:35	WG1445259
Total Xylenes	U		0.00502	0.00682	1	03/17/2020 17:35	WG1445259
(S) Toluene-d8	104			75.0-131		03/17/2020 17:35	WG1445259
(S) 4-Bromofluorobenzene	100			67.0-138		03/17/2020 17:35	WG1445259
(S) 1,2-Dichloroethane-d4	99.3			70.0-130		03/17/2020 17:35	WG1445259



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.69	4.20	1	03/20/2020 07:32	WG1446556
C28-C40 Oil Range	3.30	<u>J</u>	0.288	4.20	1	03/20/2020 07:32	WG1446556
(S) o-Terphenyl	60.6			18.0-148		03/20/2020 07:32	WG1446556

ONE LAB. NAPagev124 of 125

Collected date/time: 03/06/20 11:50

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	87.1		1	03/19/2020 01:04	WG1445648



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1080		4.57	57.4	5	03/18/2020 00:34	WG1445291



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	0.0556	ВЈ	0.0249	0.115	1	03/17/2020 18:34	WG1445660
(S) a,a,a-Trifluorotoluene(FID)	95.1			77.0-120		03/17/2020 18:34	WG1445660



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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		0.000459	0.00115	1	03/17/2020 17:54	WG1445259
Toluene	U		0.00144	0.00574	1	03/17/2020 17:54	WG1445259
Ethylbenzene	U		0.000609	0.00287	1	03/17/2020 17:54	WG1445259
Total Xylenes	U		0.00549	0.00746	1	03/17/2020 17:54	WG1445259
(S) Toluene-d8	104			<i>75.0-131</i>		03/17/2020 17:54	WG1445259
(S) 4-Bromofluorobenzene	96.8			67.0-138		03/17/2020 17:54	WG1445259
(S) 1,2-Dichloroethane-d4	98.9			70.0-130		03/17/2020 17:54	WG1445259



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Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	324		37.0	91.9	20	03/20/2020 02:28	WG1446556
C28-C40 Oil Range	633		6.29	91.9	20	03/20/2020 02:28	WG1446556
(S) o-Terphenyl	67.4	J7		18.0-148		03/20/2020 02:28	WG1446556



PROJECT:

212C-MD-02119

DATE/TIME:

03/24/20 18:17

ONE LAB. NAPagev125 of \$25

Collected date/time: 03/06/20 12:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	89.8		1	03/19/2020 01:04	WG1445648



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1580		4.43	55.7	5	03/18/2020 00:53	WG1445291



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	0.0442	BJ	0.0242	0.111	1	03/17/2020 08:16	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	93.0			77.0-120		03/17/2020 08:16	<u>WG1445120</u>



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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		0.000445	0.00111	1	03/17/2020 18:13	WG1445259
Toluene	U		0.00139	0.00557	1	03/17/2020 18:13	WG1445259
Ethylbenzene	U		0.000590	0.00278	1	03/17/2020 18:13	WG1445259
Total Xylenes	U		0.00532	0.00724	1	03/17/2020 18:13	WG1445259
(S) Toluene-d8	104			75.0-131		03/17/2020 18:13	WG1445259
(S) 4-Bromofluorobenzene	99.3			67.0-138		03/17/2020 18:13	WG1445259
(S) 1,2-Dichloroethane-d4	99.1			70.0-130		03/17/2020 18:13	WG1445259



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	416		35.9	89.1	20	03/21/2020 04:09	WG1447675
C28-C40 Oil Range	725		6.10	89.1	20	03/21/2020 04:09	WG1447675
(S) o-Terphenyl	60.3	J7		18.0-148		03/21/2020 04:09	WG1447675



Collected date/time: 03/06/20 12:10

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	93.0		1	03/19/2020 01:04	WG1445648



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	1360		4.28	53.8	5	03/18/2020 01:02	WG1445291



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	0.0372	ВЈ	0.0233	0.108	1	03/17/2020 18:54	WG1445660
(S) a,a,a-Trifluorotoluene(FID)	97.3			77.0-120		03/17/2020 18:54	WG1445660



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

	'	, ,					
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000430	0.00108	1	03/17/2020 18:32	WG1445259
Toluene	U		0.00134	0.00538	1	03/17/2020 18:32	WG1445259
Ethylbenzene	U		0.000570	0.00269	1	03/17/2020 18:32	WG1445259
Total Xylenes	U		0.00514	0.00699	1	03/17/2020 18:32	WG1445259
(S) Toluene-d8	107			<i>75.0-131</i>		03/17/2020 18:32	WG1445259
(S) 4-Bromofluorobenzene	102			67.0-138		03/17/2020 18:32	WG1445259
(S) 1,2-Dichloroethane-d4	99.3			70.0-130		03/17/2020 18:32	WG1445259



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	6.49		1.73	4.30	1	03/21/2020 13:28	WG1447675
C28-C40 Oil Range	7.75		0.295	4.30	1	03/21/2020 13:28	WG1447675
(S) o-Terphenyl	55.6			18.0-148		03/21/2020 13:28	WG1447675

Collected date/time: 03/06/20 12:20

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	91.7		1	03/19/2020 01:04	<u>WG1445648</u>



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1320		4.34	54.5	5	03/18/2020 01:12	WG1445291



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	0.0379	BJ	0.0237	0.109	1	03/17/2020 08:57	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	96.8			77.0-120		03/17/2020 08:57	<u>WG1445120</u>



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

	'	, , ,	<u>′</u>				
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000436	0.00109	1	03/17/2020 18:51	WG1445259
Toluene	U		0.00136	0.00545	1	03/17/2020 18:51	WG1445259
Ethylbenzene	U		0.000578	0.00273	1	03/17/2020 18:51	WG1445259
Total Xylenes	U		0.00521	0.00709	1	03/17/2020 18:51	WG1445259
(S) Toluene-d8	105			75.0-131		03/17/2020 18:51	WG1445259
(S) 4-Bromofluorobenzene	98.1			67.0-138		03/17/2020 18:51	WG1445259
(S) 1,2-Dichloroethane-d4	98.2			70.0-130		03/17/2020 18:51	WG1445259

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	24.2		1.76	4.36	1	03/21/2020 02:54	WG1447675
C28-C40 Oil Range	44.4		0.299	4.36	1	03/21/2020 02:54	WG1447675
(S) o-Terphenyl	55.3			18.0-148		03/21/2020 02:54	WG1447675



Total Solids by Method 2540 G-2011

Collected date/time: 03/06/20 13:00

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	94.7		1	03/19/2020 01:04	WG1445648



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	381		0.840	10.6	1	03/18/2020 01:40	WG1445291



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	0.0440	ВЈ	0.0229	0.106	1	03/17/2020 09:17	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	96.6			77.0-120		03/17/2020 09:17	WG1445120



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000423	0.00106	1	03/17/2020 19:10	WG1445259
Toluene	U		0.00132	0.00528	1	03/17/2020 19:10	WG1445259
Ethylbenzene	U		0.000560	0.00264	1	03/17/2020 19:10	WG1445259
Total Xylenes	U		0.00505	0.00687	1	03/17/2020 19:10	WG1445259
(S) Toluene-d8	105			75.0-131		03/17/2020 19:10	WG1445259
(S) 4-Bromofluorobenzene	101			67.0-138		03/17/2020 19:10	WG1445259
(S) 1,2-Dichloroethane-d4	98.6			70.0-130		03/17/2020 19:10	WG1445259



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	10.3		1.70	4.23	1	03/21/2020 03:07	WG1447675
C28-C40 Oil Range	30.8		0.289	4.23	1	03/21/2020 03:07	WG1447675
(S) o-Terphenyl	71.3			18.0-148		03/21/2020 03:07	WG1447675



Collected date/time: 03/06/20 13:10

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	89.4		1	03/19/2020 01:04	WG1445648



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	71.0		0.889	11.2	1	03/18/2020 02:09	WG1445291



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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	0.0439	ВЈ	0.0243	0.112	1	03/17/2020 09:38	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	96.0			77.0-120		03/17/2020 09:38	WG1445120



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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		0.000447	0.00112	1	03/18/2020 08:16	WG1445267
Toluene	U		0.00140	0.00559	1	03/18/2020 08:16	WG1445267
Ethylbenzene	U		0.000593	0.00280	1	03/18/2020 08:16	WG1445267
Total Xylenes	U		0.00534	0.00727	1	03/18/2020 08:16	WG1445267
(S) Toluene-d8	106			75.0-131		03/18/2020 08:16	WG1445267
(S) 4-Bromofluorobenzene	106			67.0-138		03/18/2020 08:16	WG1445267
(S) 1,2-Dichloroethane-d4	103			70.0-130		03/18/2020 08:16	WG1445267



Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	10.6		1.80	4.47	1	03/21/2020 02:41	WG1447675
C28-C40 Oil Range	31.3		0.306	4.47	1	03/21/2020 02:41	WG1447675
(S) o-Terphenvl	58.7			18.0-148		03/21/2020 02:41	WG1447675

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Collected date/time: 03/06/20 11:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	89.2		1	03/19/2020 01:04	WG1445648



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	158		0.891	11.2	1	03/18/2020 02:18	WG1445291



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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	0.0381	ВЈ	0.0243	0.112	1	03/17/2020 09:58	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	92.0			77.0-120		03/17/2020 09:58	WG1445120



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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		0.000448	0.00112	1	03/18/2020 08:37	WG1445267
Toluene	U		0.00140	0.00561	1	03/18/2020 08:37	WG1445267
Ethylbenzene	U		0.000594	0.00280	1	03/18/2020 08:37	WG1445267
Total Xylenes	U		0.00536	0.00729	1	03/18/2020 08:37	WG1445267
(S) Toluene-d8	105			75.0-131		03/18/2020 08:37	WG1445267
(S) 4-Bromofluorobenzene	93.1			67.0-138		03/18/2020 08:37	WG1445267
(S) 1,2-Dichloroethane-d4	114			70.0-130		03/18/2020 08:37	WG1445267



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	726		36.1	89.7	20	03/21/2020 03:57	WG1447675
C28-C40 Oil Range	1260		6.14	89.7	20	03/21/2020 03:57	WG1447675
(S) o-Terphenyl	82.1	J7		18.0-148		03/21/2020 03:57	WG1447675

Collected date/time: 03/06/20 11:10

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	89.4		1	03/19/2020 01:04	WG1445648



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	40.3		0.889	11.2	1	03/18/2020 02:28	WG1445291



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	0.0422	ВJ	0.0243	0.112	1	03/17/2020 10:18	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		03/17/2020 10:18	WG1445120



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000447	0.00112	1	03/18/2020 08:58	WG1445267
Toluene	U		0.00140	0.00559	1	03/18/2020 08:58	WG1445267
Ethylbenzene	U		0.000593	0.00280	1	03/18/2020 08:58	WG1445267
otal Xylenes	U		0.00535	0.00727	1	03/18/2020 08:58	WG1445267
(S) Toluene-d8	105			75.0-131		03/18/2020 08:58	WG1445267
(S) 4-Bromofluorobenzene	92.9			67.0-138		03/18/2020 08:58	WG1445267
(S) 1,2-Dichloroethane-d4	113			70.0-130		03/18/2020 08:58	WG1445267



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Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.08	<u>J</u>	1.80	4.47	1	03/21/2020 13:02	WG1447675
C28-C40 Oil Range	2.72	<u>J</u>	0.306	4.47	1	03/21/2020 13:02	WG1447675
(S) o-Terphenyl	48.9			18.0-148		03/21/2020 13:02	WG1447675

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Collected date/time: 03/06/20 11:20

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	98.0		1	03/19/2020 01:04	<u>WG1445648</u>



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	69.4		0.811	10.2	1	03/18/2020 02:37	WG1445291



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	0.189	<u>B</u>	0.0221	0.102	1	03/17/2020 10:39	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	96.3			77.0-120		03/17/2020 10:39	WG1445120



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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		0.000408	0.00102	1	03/18/2020 09:18	WG1445267
Toluene	U		0.00128	0.00510	1	03/18/2020 09:18	WG1445267
Ethylbenzene	U		0.000541	0.00255	1	03/18/2020 09:18	WG1445267
Total Xylenes	U		0.00488	0.00663	1	03/18/2020 09:18	WG1445267
(S) Toluene-d8	108			75.0-131		03/18/2020 09:18	WG1445267
(S) 4-Bromofluorobenzene	94.4			67.0-138		03/18/2020 09:18	WG1445267
(S) 1,2-Dichloroethane-d4	97.8			70.0-130		03/18/2020 09:18	WG1445267

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.64	4.08	1	03/21/2020 00:48	WG1447675
C28-C40 Oil Range	5.53		0.280	4.08	1	03/21/2020 00:48	WG1447675
(S) o-Terphenyl	61.1			18.0-148		03/21/2020 00:48	WG1447675

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Collected date/time: 03/06/20 11:30

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	96.7		1	03/19/2020 00:54	<u>WG1445649</u>

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	248		0.822	10.3	1	03/18/2020 02:47	WG1445291



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	0.0414	ВJ	0.0224	0.103	1	03/17/2020 10:59	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		03/17/2020 10:59	WG1445120



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000414	0.00103	1	03/18/2020 09:39	WG1445267
Toluene	U		0.00129	0.00517	1	03/18/2020 09:39	WG1445267
Ethylbenzene	U		0.000548	0.00259	1	03/18/2020 09:39	WG1445267
Total Xylenes	U		0.00494	0.00672	1	03/18/2020 09:39	WG1445267
(S) Toluene-d8	107			<i>75.0-131</i>		03/18/2020 09:39	WG1445267
(S) 4-Bromofluorobenzene	94.9			67.0-138		03/18/2020 09:39	WG1445267
(S) 1,2-Dichloroethane-d4	103			70.0-130		03/18/2020 09:39	WG1445267



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.66	4.14	1	03/21/2020 13:15	WG1447675
C28-C40 Oil Range	2.71	<u>J</u>	0.283	4.14	1	03/21/2020 13:15	WG1447675
(S) o-Terphenyl	63.0			18.0-148		03/21/2020 13:15	WG1447675

ONE LAB. NAPagev134 of \$25

Collected date/time: 03/06/20 11:50

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	93.1		1	03/19/2020 00:54	WG1445649



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	4360		17.1	215	20	03/18/2020 02:57	WG1445291



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	0.0496	ВЈ	0.0233	0.107	1	03/17/2020 19:15	WG1445660
(S) a,a,a-Trifluorotoluene(FID)	94.7			77.0-120		03/17/2020 19:15	WG1445660



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000429	0.00107	1	03/18/2020 10:00	WG1445267
Toluene	U		0.00134	0.00537	1	03/18/2020 10:00	WG1445267
Ethylbenzene	U		0.000569	0.00268	1	03/18/2020 10:00	WG1445267
Total Xylenes	U		0.00513	0.00698	1	03/18/2020 10:00	WG1445267
(S) Toluene-d8	107			<i>75.0-131</i>		03/18/2020 10:00	WG1445267
(S) 4-Bromofluorobenzene	92.8			67.0-138		03/18/2020 10:00	WG1445267
(S) 1,2-Dichloroethane-d4	101			70.0-130		03/18/2020 10:00	WG1445267

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	176		34.6	85.9	20	03/21/2020 03:32	WG1447675
C28-C40 Oil Range	390		5.88	85.9	20	03/21/2020 03:32	WG1447675
(S) o-Terphenyl	77.6	J7		18.0-148		03/21/2020 03:32	WG1447675











ONE LAB. NAPagev135 of \$25

Collected date/time: 03/06/20 12:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	93.4		1	03/19/2020 00:54	<u>WG1445649</u>



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	3800		17.0	214	20	03/18/2020 03:06	WG1445291



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	0.0451	ВЈ	0.0232	0.107	1	03/17/2020 19:35	WG1445660
(S) a,a,a-Trifluorotoluene(FID)	93.4			77.0-120		03/17/2020 19:35	<u>WG1445660</u>



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000428	0.00107	1	03/18/2020 10:21	WG1445267
Toluene	U		0.00134	0.00535	1	03/18/2020 10:21	WG1445267
Ethylbenzene	U		0.000567	0.00268	1	03/18/2020 10:21	WG1445267
Total Xylenes	U		0.00512	0.00696	1	03/18/2020 10:21	WG1445267
(S) Toluene-d8	107			75.0-131		03/18/2020 10:21	WG1445267
(S) 4-Bromofluorobenzene	95.2			67.0-138		03/18/2020 10:21	WG1445267
(S) 1,2-Dichloroethane-d4	100			70.0-130		03/18/2020 10:21	WG1445267



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	80.3		17.2	42.8	10	03/21/2020 03:44	WG1447675
C28-C40 Oil Range	172		2.93	42.8	10	03/21/2020 03:44	WG1447675
(S) o-Terphenyl	35.5			18.0-148		03/21/2020 03:44	WG1447675



Collected date/time: 03/06/20 12:10

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	93.3		1	03/19/2020 00:54	WG1445649



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	6720		17.0	214	20	03/18/2020 03:35	WG1445291



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	0.0327	ВЈ	0.0233	0.107	1	03/20/2020 16:07	WG1447538
(S) a,a,a-Trifluorotoluene(FID)	98.6			77.0-120		03/20/2020 16:07	WG1447538



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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		0.000429	0.00107	1	03/18/2020 10:41	WG1445267
Toluene	U		0.00134	0.00536	1	03/18/2020 10:41	WG1445267
Ethylbenzene	U		0.000568	0.00268	1	03/18/2020 10:41	WG1445267
Total Xylenes	U		0.00512	0.00697	1	03/18/2020 10:41	WG1445267
(S) Toluene-d8	107			<i>75.0-131</i>		03/18/2020 10:41	WG1445267
(S) 4-Bromofluorobenzene	93.4			67.0-138		03/18/2020 10:41	WG1445267
(S) 1,2-Dichloroethane-d4	101			70.0-130		03/18/2020 10:41	WG1445267

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	7.34		1.73	4.29	1	03/21/2020 01:00	WG1447675
C28-C40 Oil Range	13.7		0.294	4.29	1	03/21/2020 01:00	WG1447675
(S) o-Terphenyl	53.5			18.0-148		03/21/2020 01:00	WG1447675

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Collected date/time: 03/06/20 12:20

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	94.2		1	03/19/2020 00:54	<u>WG1445649</u>



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	4830		16.9	212	20	03/18/2020 03:44	WG1445291



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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	0.0665	ВЈ	0.0230	0.106	1	03/17/2020 07:31	WG1445128
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		03/17/2020 07:31	WG1445128



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000424	0.00106	1	03/18/2020 11:02	WG1445267
Toluene	U		0.00133	0.00531	1	03/18/2020 11:02	WG1445267
Ethylbenzene	U		0.000562	0.00265	1	03/18/2020 11:02	WG1445267
Total Xylenes	U		0.00507	0.00690	1	03/18/2020 11:02	WG1445267
(S) Toluene-d8	105			75.0-131		03/18/2020 11:02	WG1445267
(S) 4-Bromofluorobenzene	91.9			67.0-138		03/18/2020 11:02	WG1445267
(S) 1,2-Dichloroethane-d4	103			70.0-130		03/18/2020 11:02	WG1445267

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	6.42		1.71	4.24	1	03/21/2020 01:13	WG1447675
C28-C40 Oil Range	12.8		0.291	4.24	1	03/21/2020 01:13	WG1447675
(S) o-Terphenyl	61.2			18.0-148		03/21/2020 01:13	WG1447675

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Collected date/time: 03/06/20 13:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	94.4		1	03/19/2020 00:54	WG1445649



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	295		0.842	10.6	1	03/18/2020 03:54	WG1445291



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	0.0606	ВЈ	0.0230	0.106	1	03/17/2020 07:53	WG1445128
(S) a,a,a-Trifluorotoluene(FID)	95.0			77.0-120		03/17/2020 07:53	WG1445128



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000424	0.00106	1	03/18/2020 11:23	WG1445267
Toluene	U		0.00132	0.00530	1	03/18/2020 11:23	WG1445267
Ethylbenzene	U		0.000561	0.00265	1	03/18/2020 11:23	WG1445267
Total Xylenes	U		0.00506	0.00689	1	03/18/2020 11:23	WG1445267
(S) Toluene-d8	91.5			75.0-131		03/18/2020 11:23	WG1445267
(S) 4-Bromofluorobenzene	95.3			67.0-138		03/18/2020 11:23	WG1445267
(S) 1,2-Dichloroethane-d4	116			70.0-130		03/18/2020 11:23	WG1445267



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	949		85.3	212	50	03/21/2020 03:19	WG1447675
C28-C40 Oil Range	1920		14.5	212	50	03/21/2020 03:19	WG1447675
(S) o-Terphenyl	77.8	J7		18.0-148		03/21/2020 03:19	WG1447675



Collected date/time: 03/06/20 13:10

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	96.4		1	03/19/2020 00:54	<u>WG1445649</u>



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	302		0.825	10.4	1	03/18/2020 04:03	WG1445291



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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	0.0505	ВЈ	0.0225	0.104	1	03/17/2020 08:25	WG1445128
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		03/17/2020 08:25	WG1445128



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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		0.000415	0.00104	1	03/18/2020 11:43	WG1445267
Toluene	U		0.00130	0.00519	1	03/18/2020 11:43	WG1445267
Ethylbenzene	U		0.000550	0.00259	1	03/18/2020 11:43	WG1445267
Total Xylenes	U		0.00496	0.00675	1	03/18/2020 11:43	WG1445267
(S) Toluene-d8	89.9			75.0-131		03/18/2020 11:43	WG1445267
(S) 4-Bromofluorobenzene	89.3			67.0-138		03/18/2020 11:43	WG1445267
(S) 1,2-Dichloroethane-d4	110			70.0-130		03/18/2020 11:43	WG1445267

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.94	<u>J</u>	1.67	4.15	1	03/21/2020 01:26	WG1447675
C28-C40 Oil Range	7.12		0.284	4.15	1	03/21/2020 01:26	WG1447675
(S) o-Terphenyl	69.6			18.0-148		03/21/2020 01:26	WG1447675



Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	98.9		1	03/19/2020 00:54	WG1445649



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	2.92	<u>B J</u>	0.804	10.1	1	03/18/2020 00:58	WG1445292



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	0.0670	ВЈ	0.0219	0.101	1	03/17/2020 09:13	WG1445128
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120		03/17/2020 09:13	WG1445128



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000405	0.00101	1	03/18/2020 12:04	WG1445267
Toluene	U		0.00126	0.00506	1	03/18/2020 12:04	WG1445267
Ethylbenzene	U		0.000536	0.00253	1	03/18/2020 12:04	WG1445267
Total Xylenes	U		0.00483	0.00657	1	03/18/2020 12:04	WG1445267
(S) Toluene-d8	101			75.0-131		03/18/2020 12:04	WG1445267
(S) 4-Bromofluorobenzene	92.1			67.0-138		03/18/2020 12:04	WG1445267
(S) 1,2-Dichloroethane-d4	98.6			70.0-130		03/18/2020 12:04	WG1445267

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.63	4.05	1	03/21/2020 01:38	WG1447675
C28-C40 Oil Range	7.73		0.277	4.05	1	03/21/2020 01:38	WG1447675
(S) o-Terphenyl	60.1			18.0-148		03/21/2020 01:38	WG1447675

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	96.6		1	03/19/2020 00:54	WG1445649



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	3.32	<u>B J</u>	0.823	10.3	1	03/18/2020 01:51	WG1445292



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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	0.0556	ВЈ	0.0225	0.103	1	03/17/2020 09:57	WG1445128
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		03/17/2020 09:57	WG1445128



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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		0.000414	0.00103	1	03/18/2020 12:24	WG1445267
Toluene	U		0.00129	0.00517	1	03/18/2020 12:24	WG1445267
Ethylbenzene	U		0.000549	0.00259	1	03/18/2020 12:24	WG1445267
Total Xylenes	U		0.00495	0.00673	1	03/18/2020 12:24	WG1445267
(S) Toluene-d8	124			75.0-131		03/18/2020 12:24	WG1445267
(S) 4-Bromofluorobenzene	94.6			67.0-138		03/18/2020 12:24	WG1445267
(S) 1,2-Dichloroethane-d4	115			70.0-130		03/18/2020 12:24	WG1445267



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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.79	<u>J</u>	1.67	4.14	1	03/21/2020 02:29	WG1447675
C28-C40 Oil Range	18.2		0.284	4.14	1	03/21/2020 02:29	WG1447675
(S) o-Terphenyl	72.1			18.0-148		03/21/2020 02:29	WG1447675

ONE LAB. NAPagev142 of \$25

Collected date/time: 03/09/20 11:20

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	98.6		1	03/19/2020 00:54	<u>WG1445649</u>



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	2.67	<u>B J</u>	0.806	10.1	1	03/18/2020 02:09	WG1445292



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	0.0675	ВЈ	0.0220	0.101	1	03/17/2020 10:20	WG1445128
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		03/17/2020 10:20	WG1445128



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000406	0.00101	1	03/18/2020 12:45	WG1445267
Toluene	U		0.00127	0.00507	1	03/18/2020 12:45	WG1445267
Ethylbenzene	U		0.000537	0.00253	1	03/18/2020 12:45	WG1445267
Total Xylenes	U		0.00485	0.00659	1	03/18/2020 12:45	WG1445267
(S) Toluene-d8	105			<i>75.0-131</i>		03/18/2020 12:45	WG1445267
(S) 4-Bromofluorobenzene	91.0			67.0-138		03/18/2020 12:45	WG1445267
(S) 1,2-Dichloroethane-d4	104			70.0-130		03/18/2020 12:45	WG1445267

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.91	<u>J</u>	1.63	4.06	1	03/21/2020 01:51	WG1447675
C28-C40 Oil Range	8.03		0.278	4.06	1	03/21/2020 01:51	WG1447675
(S) o-Terphenyl	67.3			18.0-148		03/21/2020 01:51	WG1447675

Collected date/time: 03/09/20 11:30

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	96.0		1	03/19/2020 00:43	<u>WG1445651</u>



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	3.96	<u>B J</u>	0.828	10.4	1	03/18/2020 02:27	WG1445292



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	0.0729	ВЈ	0.0226	0.104	1	03/17/2020 10:42	WG1445128
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		03/17/2020 10:42	WG1445128



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000417	0.00104	1	03/18/2020 13:06	WG1445267
Toluene	U		0.00130	0.00521	1	03/18/2020 13:06	WG1445267
Ethylbenzene	U		0.000552	0.00261	1	03/18/2020 13:06	WG1445267
Total Xylenes	U		0.00498	0.00677	1	03/18/2020 13:06	WG1445267
(S) Toluene-d8	105			75.0-131		03/18/2020 13:06	WG1445267
(S) 4-Bromofluorobenzene	89.9			67.0-138		03/18/2020 13:06	WG1445267
(S) 1,2-Dichloroethane-d4	115			70.0-130		03/18/2020 13:06	WG1445267



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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.15	<u>J</u>	1.68	4.17	1	03/21/2020 02:03	WG1447675
C28-C40 Oil Range	8.49		0.286	4.17	1	03/21/2020 02:03	WG1447675
(S) o-Terphenyl	71.7			18.0-148		03/21/2020 02:03	WG1447675



ONE LAB. NAPagev144 of \$25

Collected date/time: 03/09/20 11:50

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	91.9		1	03/19/2020 00:43	WG1445651



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	838		4.33	54.4	5	03/18/2020 02:45	WG1445292



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	0.0648	ВЈ	0.0236	0.109	1	03/17/2020 11:03	WG1445128
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120		03/17/2020 11:03	WG1445128



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000435	0.00109	1	03/18/2020 13:26	WG1445267
Toluene	U		0.00136	0.00544	1	03/18/2020 13:26	WG1445267
Ethylbenzene	U		0.000577	0.00272	1	03/18/2020 13:26	WG1445267
Total Xylenes	U		0.00520	0.00707	1	03/18/2020 13:26	WG1445267
(S) Toluene-d8	103			75.0-131		03/18/2020 13:26	WG1445267
(S) 4-Bromofluorobenzene	91.1			67.0-138		03/18/2020 13:26	WG1445267
(S) 1,2-Dichloroethane-d4	114			70.0-130		03/18/2020 13:26	WG1445267



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	20.4		1.75	4.35	1	03/21/2020 02:16	WG1447675
C28-C40 Oil Range	36.3		0.298	4.35	1	03/21/2020 02:16	WG1447675
(S) o-Terphenyl	50.5			18.0-148		03/21/2020 02:16	WG1447675

Collected date/time: 03/09/20 12:20

SAMPLE RESULTS - 50

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	95.6		1	03/19/2020 00:43	<u>WG1445651</u>



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	432		0.832	10.5	1	03/18/2020 03:03	WG1445292



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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		0.0227	0.105	1	03/17/2020 11:14	WG1445199
(S) a,a,a-Trifluorotoluene(FID)	98.9			77.0-120		03/17/2020 11:14	WG1445199



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000419	0.00105	1	03/18/2020 13:47	WG1445267
Toluene	U		0.00131	0.00523	1	03/18/2020 13:47	WG1445267
Ethylbenzene	U		0.000555	0.00262	1	03/18/2020 13:47	WG1445267
Total Xylenes	U		0.00500	0.00680	1	03/18/2020 13:47	WG1445267
(S) Toluene-d8	103			<i>75.0-131</i>		03/18/2020 13:47	WG1445267
(S) 4-Bromofluorobenzene	90.9			67.0-138		03/18/2020 13:47	WG1445267
(S) 1,2-Dichloroethane-d4	111			70.0-130		03/18/2020 13:47	WG1445267



	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	03/20/2020 00:31	WG1447038
C28-C40 Oil Range	1.57	J	0.287	4.19	1	03/20/2020 00:31	WG1447038
(S) o-Terphenvl	72.0			18.0-148		03/20/2020 00:31	WG1447038

ONE LAB. NAPagev146 of \$25

Collected date/time: 03/09/20 13:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	90.5		1	03/19/2020 00:43	WG1445651



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	2690		8.78	110	10	03/18/2020 03:57	WG1445292



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		0.0240	0.110	1	03/17/2020 11:38	WG1445199
(S) a,a,a-Trifluorotoluene(FID)	99.9			77.0-120		03/17/2020 11:38	WG1445199



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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		0.000442	0.00110	1	03/18/2020 14:07	WG1445267
Toluene	U		0.00138	0.00552	1	03/18/2020 14:07	WG1445267
Ethylbenzene	U		0.000585	0.00276	1	03/18/2020 14:07	WG1445267
Total Xylenes	U		0.00528	0.00718	1	03/18/2020 14:07	WG1445267
(S) Toluene-d8	105			75.0-131		03/18/2020 14:07	WG1445267
(S) 4-Bromofluorobenzene	91.4			67.0-138		03/18/2020 14:07	WG1445267
(S) 1,2-Dichloroethane-d4	113			70.0-130		03/18/2020 14:07	WG1445267



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.78	4.42	1	03/20/2020 00:45	WG1447038
C28-C40 Oil Range	1.60	<u>J</u>	0.303	4.42	1	03/20/2020 00:45	WG1447038
(S) o-Terphenyl	72.6			18.0-148		03/20/2020 00:45	WG1447038

Collected date/time: 03/10/20 10:50

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	93.6		1	03/19/2020 00:43	<u>WG1445651</u>



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	3030		8.50	107	10	03/18/2020 04:15	WG1445292



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		0.0232	0.107	1	03/17/2020 12:14	WG1445199
(S) a,a,a-Trifluorotoluene(FID)	99.2			77.0-120		03/17/2020 12:14	WG1445199



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000428	0.00107	1	03/18/2020 14:28	WG1445267
Toluene	U		0.00134	0.00534	1	03/18/2020 14:28	WG1445267
Ethylbenzene	U		0.000567	0.00267	1	03/18/2020 14:28	WG1445267
Total Xylenes	U		0.00511	0.00695	1	03/18/2020 14:28	WG1445267
(S) Toluene-d8	107			<i>75.0-131</i>		03/18/2020 14:28	WG1445267
(S) 4-Bromofluorobenzene	93.2			67.0-138		03/18/2020 14:28	WG1445267
(S) 1,2-Dichloroethane-d4	99.1			70.0-130		03/18/2020 14:28	WG1445267

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.46	<u>J</u>	1.72	4.28	1	03/20/2020 10:45	WG1447038
C28-C40 Oil Range	10.8		0.293	4.28	1	03/20/2020 10:45	WG1447038
(S) o-Terphenyl	77.0			18.0-148		03/20/2020 10:45	WG1447038

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	93.2		1	03/19/2020 00:43	<u>WG1445651</u>



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	42.6		0.853	10.7	1	03/18/2020 04:32	WG1445292



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		0.0233	0.107	1	03/18/2020 17:19	WG1446150
(S) a,a,a-Trifluorotoluene(FID)	97.0			77.0-120		03/18/2020 17:19	WG1446150



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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	<u>J3</u>	0.000429	0.00107	1	03/18/2020 14:48	WG1445267
Toluene	U	<u>J3</u>	0.00134	0.00537	1	03/18/2020 14:48	WG1445267
Ethylbenzene	U	<u>J3</u>	0.000569	0.00268	1	03/18/2020 14:48	WG1445267
Total Xylenes	U	<u>J3</u>	0.00513	0.00697	1	03/18/2020 14:48	WG1445267
(S) Toluene-d8	107			75.0-131		03/18/2020 14:48	WG1445267
(S) 4-Bromofluorobenzene	93.1			67.0-138		03/18/2020 14:48	WG1445267
(S) 1,2-Dichloroethane-d4	107			70.0-130		03/18/2020 14:48	WG1445267



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.73	4.29	1	03/20/2020 10:59	WG1447038
C28-C40 Oil Range	5.92		0.294	4.29	1	03/20/2020 10:59	WG1447038
(S) o-Terphenyl	68.7			18.0-148		03/20/2020 10:59	WG1447038



Collected date/time: 03/10/20 11:10

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	95.5		1	03/19/2020 00:43	<u>WG1445651</u>



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	3.39	<u>B J</u>	0.833	10.5	1	03/18/2020 05:26	WG1445292



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		0.0227	0.105	1	03/17/2020 13:02	WG1445199
(S) a,a,a-Trifluorotoluene(FID)	99.1			77.0-120		03/17/2020 13:02	<u>WG1445199</u>



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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		0.000419	0.00105	1	03/17/2020 17:30	WG1445419
Toluene	U		0.00131	0.00524	1	03/17/2020 17:30	WG1445419
Ethylbenzene	U		0.000555	0.00262	1	03/17/2020 17:30	WG1445419
Total Xylenes	U		0.00501	0.00681	1	03/17/2020 17:30	WG1445419
(S) Toluene-d8	102			75.0-131		03/17/2020 17:30	WG1445419
(S) 4-Bromofluorobenzene	100			67.0-138		03/17/2020 17:30	WG1445419
(S) 1,2-Dichloroethane-d4	99.1			70.0-130		03/17/2020 17:30	WG1445419



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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	8.83		1.69	4.19	1	03/20/2020 10:32	WG1447038
C28-C40 Oil Range	28.8		0.287	4.19	1	03/20/2020 10:32	WG1447038
(S) o-Terphenyl	73.9			18.0-148		03/20/2020 10:32	WG1447038



Collected date/time: 03/10/20 11:20

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	93.5		1	03/19/2020 00:43	<u>WG1445651</u>



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	45.7		0.850	10.7	1	03/18/2020 05:44	WG1445292



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		0.0232	0.107	1	03/17/2020 13:26	WG1445199
(S) a,a,a-Trifluorotoluene(FID)	100			77.0-120		03/17/2020 13:26	WG1445199



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000428	0.00107	1	03/17/2020 17:49	WG1445419
Toluene	U		0.00134	0.00535	1	03/17/2020 17:49	WG1445419
Ethylbenzene	U		0.000567	0.00267	1	03/17/2020 17:49	WG1445419
Total Xylenes	U		0.00511	0.00695	1	03/17/2020 17:49	WG1445419
(S) Toluene-d8	101			75.0-131		03/17/2020 17:49	WG1445419
(S) 4-Bromofluorobenzene	101			67.0-138		03/17/2020 17:49	WG1445419
(S) 1,2-Dichloroethane-d4	97.3			70.0-130		03/17/2020 17:49	WG1445419



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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.82	<u>J</u>	1.72	4.28	1	03/20/2020 10:18	WG1447038
C28-C40 Oil Range	16.5		0.293	4.28	1	03/20/2020 10:18	WG1447038
(S) o-Terphenvl	76.7			18.0-148		03/20/2020 10:18	WG1447038

Collected date/time: 03/10/20 11:30

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	82.9		1	03/19/2020 00:43	WG1445651



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	225		4.80	60.3	5	03/18/2020 06:02	WG1445292



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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	0.177		0.0262	0.121	1	03/17/2020 13:50	WG1445199
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		03/17/2020 13:50	WG1445199



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000483	0.00121	1	03/17/2020 18:08	WG1445419
Toluene	U		0.00151	0.00603	1	03/17/2020 18:08	WG1445419
Ethylbenzene	U		0.000640	0.00302	1	03/17/2020 18:08	WG1445419
Total Xylenes	U		0.00577	0.00784	1	03/17/2020 18:08	WG1445419
(S) Toluene-d8	103			75.0-131		03/17/2020 18:08	WG1445419
(S) 4-Bromofluorobenzene	99.5			67.0-138		03/17/2020 18:08	WG1445419
(S) 1,2-Dichloroethane-d4	98.2			70.0-130		03/17/2020 18:08	WG1445419



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	11.8		1.94	4.83	1	03/20/2020 00:58	WG1447038
C28-C40 Oil Range	14.2		0.331	4.83	1	03/20/2020 00:58	WG1447038
(S) o-Terphenyl	45.0			18.0-148		03/20/2020 00:58	WG1447038

ONE LAB. NAPagev152 of \$25

Collected date/time: 03/10/20 12:10

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	95.1		1	03/19/2020 00:43	<u>WG1445651</u>



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	545		0.836	10.5	1	03/18/2020 06:20	WG1445292



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	0.0631	ВJ	0.0228	0.105	1	03/17/2020 09:35	WG1445128
(S) a,a,a-Trifluorotoluene(FID)	103			77.0-120		03/17/2020 09:35	WG1445128



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000420	0.00105	1	03/17/2020 18:27	WG1445419
Toluene	U		0.00131	0.00526	1	03/17/2020 18:27	WG1445419
Ethylbenzene	U		0.000557	0.00263	1	03/17/2020 18:27	WG1445419
Total Xylenes	U		0.00502	0.00683	1	03/17/2020 18:27	WG1445419
(S) Toluene-d8	102			75.0-131		03/17/2020 18:27	WG1445419
(S) 4-Bromofluorobenzene	101			67.0-138		03/17/2020 18:27	WG1445419
(S) 1,2-Dichloroethane-d4	97.9			70.0-130		03/17/2020 18:27	WG1445419



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.69	4.20	1	03/20/2020 09:52	WG1447038
C28-C40 Oil Range	0.557	<u>J</u>	0.288	4.20	1	03/20/2020 09:52	WG1447038
(S) o-Terphenyl	79.6			18.0-148		03/20/2020 09:52	WG1447038

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Total Solids by Method 2540 G-2011

L1199114-01,02,03,04,05,06,07,08

Method Blank (MB)

(MB) R3510267-1 (03/19/20 01:48			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

L1199114-01 Original Sample (OS) • Duplicate (DUP)

(OC) I 1100111 01	02/10/20 01:40	• (DUP) R3510267-3	02/10/20 01:40
(US) L1199114-U1	03/19/20 01.40	• 10041 K3310267-3	03/19/20 01.40
(03) [1133114 01	03/13/20 01.40	1001/1001020/ 0	03/13/20 01.40

(00) 21100111 01 00/10/2	Original Result			DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	95.9	96.0	1	0.114		10



(LCS	R3510267-2	03/19/20 01:48	5
------	------------	----------------	---

(LCS) R3510267-2 03/19/2	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	





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Total Solids by Method 2540 G-2011

L1199114-09,10,11,12,13,14,15,16,17,18

Method Blank (MB)

(MB) R3510263-1 03/	19/20 01:36			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

L1199114-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1199114-12 03/19/2	/20 01:36 • (DUP) [[]	R3510263-3 (J3/19/20 01	1:36		
	Original Result	lt DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	94.6	94.5	1	0.0688		10

(LCS) R3510263-2 03/19	9/20 01:36				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.1	100	85.0-115	

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Total Solids by Method 2540 G-2011 L1199114-19,20,21,22,23,24,25,26,27

Method Blank (MB)

(1	(MB) R3510262-1 03/19/20 01:27										
		MB Result	MB Qualifier	MB MDL	MB RDL						
Δ	ınalyte	%		%	%						
Т	otal Solids	0.000									



L1199114-20 Original Sample (OS) • Duplicate (DUP)

(OS) I 1199114-20	03/19/20 01:27	• (DUP) R3510262-3	03/19/20 01:27
(03) 1133117 20	03/13/20 01.27	1 (DOI) 113310202 3	03/13/20 01.27

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	92.2	92.5	1	0.225		10



⁶Qc

Laboratory Control Sample (LCS)

(LCS) R3510262-2 03/19/20 01:27

(LCS) RSS10262-2 03/19/2	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualit
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	





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Total Solids by Method 2540 G-2011 L1199114-28,29,30,31,32,33,34,35,36,37

Method Blank (MB)

Total Solids

(MB) R3510259-1 03/19/20 01:04 MB RDL MB Result MB Qualifier MB MDL Analyte % % %



L1199114-30 Original Sample (OS) • Duplicate (DUP)

0.000

(OS) L1199114-30 03/19/20 01:04 • (DUP) R3510259-3 03/19/20 01:04

-	⁴ Cn

Ss

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	89.8	89.7	1	0.144		10



Laboratory Control Sample (LCS)

(LCS) R3510259-2 03/19/20 01:04





GI



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Total Solids by Method 2540 G-2011

L1199114-38,39,40,41,42,43,44,45,46,47

Method Blank (MB)

(MB) R3510249-1 03/	19/20 00:54			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

L1199114-47 Original Sample (OS) • Duplicate (DUP)

(OS) L1199114-4/ ()3/19/20 00:54 • (DU	P) R3510249-3	03/19/20 (00:54				L
	Original Resi	ult DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits		į
Analyte	%	%		%		%		
Total Solids	98.6	98.6	1	0.00943		10		

(LCS) R3510249-2 03/19/20 00:54										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier					
Analyte	%	%	%	%						
Total Solids	50.0	50.0	100	85.0-115						

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Total Solids by Method 2540 G-2011

L1199114-48,49,50,51,52,53,54,55,56,57

Method Blank (MB)

(MAD) DOE100 4E 1 01	2/10/20 00:42			
(MB) R3510245-1 03	3/19/20 00:43			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.0160			

Cn

L1199114-49 Original Sample (OS) • Duplicate (DUP)

(OS) L1199114-49 03/19/20 00:43 • (DOP) R	(3510245-3 03	3/19/20 00	J:43		
Original Popult	DLID Pocult	Dilution	DI ID DDD	DLID Qualifier	DUP RPD

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	91.9	92.0	1	0.0850		10

(LCS) R3510245-2	03/19/20 00:43
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(LC3) K3310243-2 03/13/	Spike Amour	LCS Result	esult LCS Rec.	Rec. Limits
Analyte	e %	%	%	%
Total Solids	Solids 50.0	49.8	99.7	85.0-115





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Wet Chemistry by Method 300.0

L1199114-01,02,03,04,05

Method Blank (MB)

(MB) R3510072-1 03/18/20 16:03									
	MB Result	MB Qualifier	MB MDL	MB RDL					
Analyte	mg/kg		mg/kg	mg/kg					
Chloride	1.57	J	0.795	10.0					





Ss



(OS) L1199114-05 03/18/20 20:48 • (DUP) R3510072-6 03/18/20 20:58										
Original Result DUP Result Dilution DUP RPD <u>DUP Qualifier</u> DUP RPD (dry) Limits										
Analyte	mg/kg	mg/kg		%		%				
Chloride	38.0	39.9	1	4.81		20				







(OS) L1199095-34 03/18/20 21:08 • (DUP) R3510072-7 03/18/20 21:17

, ,	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	12800	13000	20	1.24		20





Laboratory Control Sample (LCS)

(LCS) R3510072-2 03/18/20 16:12

, ,	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	188	94.0	90.0-110	

L1199095-46 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) I 1199095-46 03/18/20 18:54 • (MS) R3510072-4 03/18/20 19:04 • (MSD) R3510072-5 03/18/20 19:13

(03) 11199095-40	(OS) E1133035-40 OS/10/20 10.54 • (MS) RSS10072-4 OS/10/20 13.04 • (MSD) RSS10072-5 OS/10/20 13.15												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%	
Chloride	500	11200	12900	12900	328	335	1	80.0-120	ΕV	ΕV	0.270	20	

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Wet Chemistry by Method 300.0

L1199114-06,07,08,09,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25

Method Blank (MB)

(MB) R3509981-1 03/18/20 10:14										
	MB Result	MB Qualifier	MB MDL	MB RDL						
Analyte	mg/kg		mg/kg	mg/kg						
Chloride	U		0.795	10.0						







L1199114-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1199114-06 03/18/20 10:55 • (DUP) R3509981-3 03/18/20 11:04									
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits			
Analyte	mg/kg	mg/kg		%		%			
Chloride	628	672	1	6.75		20			







(OS) L1199114-25 03/18/20 15:02 • (DUP) R3509981-6 03/18/20 15:12

(00) 2.100111 20 00/10/20	Original Result (dry)		Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	3.69	3.75	1	1.62	J	20







(LCS) R3509981-2	03/18/20 10:24
	Spike Amo

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	185	92.7	90.0-110	

L1199114-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) I 1199114-12 03/18/20 12:01 • (MS) R3509981-4 03/18/20 12:30 • (MSD) R3509981-5 03/18/20 12:39

(03) [1133114-12 03/16	13) E1133114-12 03/10/20 12.01 · (MIS) (133033014 03/10/20 12.00 · (MISD) (133033014 03/10/20 12.33											
	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	529	209	797	737	111	99.8	1	80.0-120			7.77	20

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Wet Chemistry by Method 300.0

L1199114-26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44

Method Blank (MB)

(MB) R3509647-1 03/17/2				
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	2.44	J	0.795	10.0







L1199114-29 Original Sample (OS) • Duplicate (DUP)

(OS) L1199114-29	03/18/20 00:34 • (DUP)	R3509647-3	03/18/20	00:43
	Original Result	DUP Result	Dilution	DI ID DDL

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	1080	1080	5	0.547		20









(OS) L1199596-01 03/18/20 04:13 • (DUP) R3509647-6 03/18/20 04:22

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	12.9	12.0	1	7.33		20





Laboratory Control Sample (LCS)

(LCS) R3509647-2 03	/17/20 23:44
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,	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	192	96.2	90.0-110	



L1199114-33 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) | 1199114-33 03/18/20 01:40 • (MS) P3509647-4 03/18/20 01:50 • (MSD) P3509647-5 03/18/20 01:59

(03) [1133114-33 03/1	13) E113311#-33 03/10/20 01.40 * (Mi3) N3303047-4 03/10/20 01.30 * (Mi3) N3303047-3 03/10/20 01.33												
	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	528	381	901	886	98.5	95.6	1	80.0-120			1.68	20	

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Wet Chemistry by Method 300.0

L1199114-45,46,47,48,49,50,51,52,53,54,55,56,57

Method Blank (MB)

(MB) R3509727-1 03/17/20 21:56									
	MB Result	MB Qualifier	MB MDL	MB RDL					
Analyte	mg/kg		mg/kg	mg/kg					
Chloride	2.37	<u>J</u>	0.795	10.0					









(OS) L1198966-01 03/17/20 23:46 • (DUP) R3509727-3 03/18/20 00:04								
		Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	
	Analyte	mg/kg	mg/kg		%		%	
	Chloride	1.66	0.000	1	200	P1	20	







(OS) L1199114-57 03/18/20 06:20 • (DUP) R3509727-6 03/18/20 06:38

(00) 21100111 07 00/10/20	Original Result (dry)		Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	545	548	1	0.624		20





Laboratory Control Sample (LCS)

(LCS) R3509727-2 03/17/20 22:14										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier					
Analyte	mg/kg	mg/kg	%	%						
Chloride	200	205	103	90 0-110						

L1199114-50 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(03) 1133114 30 03/10/2	` '			. ,								
	(dry)	Original Result (dry)	MS Result (dry)	(dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	523	432	975	978	104	104	1	80.0-120			0.271	20

Reserved by 19 CP3 6/6/2023 9:22:27 AM

QUALITY CONTROL SUMMARY

ONE LAB. NAPage 163 of \$25

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

L1199114-01,03,05,06,08,09,11,13,14,15,17,18,19,20

Method Blank (MB)

(LCS) R3509356-1 03/16/	20 23:09				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	5.60	102	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			112	77.0-120	









Reserved by 19 CD 70/6/2023 9:22:27 AM

QUALITY CONTROL SUMMARY

ONE LAB. NA Page 164 of \$25

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

L1199114-21,22,23,24,26,27,28,30,32,33,34,35,36,37,38

Method Blank (MB)

(MB) R3509468-3 03/17	/20 00:31				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
TPH (GC/FID) Low Fraction	0.0315	J	0.0217	0.100	
(S) a,a,a-Trifluorotoluene(FID)	97.8			77.0-120	

(LCS) R3509468-2 03/16	6/20 23:50				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	5.76	105	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			107	77.0-120	









ONE LAB. NAPage 165 of \$25

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

L1199114-42,43,44,45,46,47,48,49,57

Method Blank (MB)

(MB) R3510670-2 03/17/	20 00:47			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
TPH (GC/FID) Low Fraction	0.0503	<u>J</u>	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	104			77.0-120

(LCS) R3510670-1 03/17/2	20 00:02				
	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)			101	77.0-120	











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

L1199114-50,51,52,54,55,56

Method Blank (MB)

(MB) R3509759-3 03/17/2	20 10:26			
	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) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3509759-1 03/17/2	20 08:20 • (LCS	SD) R3509759	-2 03/17/20 09	9:39						
	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	4.80	4.22	87.3	76.7	72.0-127			12.9	20
(S) a,a,a-Trifluorotoluene(FID)				105	104	77.0-120				













ONE LAB. NAPage 167 of \$25

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

L1199114-02,04,07,10,12,16

Method Blank (MB)

MB Result Analyte MB Qualifier mg/kg MB MDL mg/kg MB RDL mg/kg TPH (GC/FID) Low Fraction (S) U 0.0217 0.100 (S) 98.6 77.0-120	(MB) R3509541-2 03/17/2	20 11:39			
TPH (GC/FID) Low Fraction U 0.0217 0.100		MB Result	MB Qualifier	MB MDL	MB RDL
(5)	Analyte	mg/kg		mg/kg	mg/kg
(S) 98.6 77.0.120	TPH (GC/FID) Low Fraction	U		0.0217	0.100
a,a,a-Trifluorotoluene(FID) 30.0 77.0-120	(S) a,a,a-Trifluorotoluene(FID)	98.6			77.0-120

(LCS) R3509541-1 03/17/2	20 10:58				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	5.10	92.7	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			108	77.0-120	









ONE LAB. NAPagev168 of \$25

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

L1199114-25,29,31,39,40

Method Blank (MB)





(LCS) R3510206-1 03/17/2) R3510206-1 03/17/20 15:15										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier						
Analyte	mg/kg	mg/kg	%	%							
TPH (GC/FID) Low Fraction	5.50	5.30	96.4	72.0-127							
(S) a,a,a-Trifluorotoluene(FID)			110	77.0-120							













ONE LAB. NAPagev169 of \$25

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

L1199114-53

Method Blank (MB)

(MB) R3511077-2 03/18/2	0 00:09				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
TPH (GC/FID) Low Fraction	U		0.0217	0.100	
(S) a,a,a-Trifluorotoluene(FID)	98.9			77.0-120	

(LCS) R3511077-1 03/17/20	S) R3511077-1 03/17/20 22:54									
	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)			106	77.0-120						











ONE LAB. NAPagev170 of \$25

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

L1199114-41

Method Blank (MB)

(MB) R3510978-3 03/20/2	20 14:34			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
TPH (GC/FID) Low Fraction	0.0254	<u>J</u>	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	99.4			77.0-120

(LCS) R3510978-2 03/20	S) R3510978-2 03/20/20 13:53										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier						
Analyte	mg/kg	mg/kg	%	%							
TPH (GC/FID) Low Fraction	5.50	5.15	93.6	72.0-127							
(S) a,a,a-Trifluorotoluene(FID)			111	77.0-120							











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

L1199114-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20

Method Blank (MB)

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	100			75.0-131
(S) 4-Bromofluorobenzene	112			67.0-138
(S) 1,2-Dichloroethane-d4	127			70.0-130

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

(LCS) R3509307-1 03/16/2	20 21.10 • (LC3L	•	2 03/10/20 22.								
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%	
Benzene	0.125	0.112	0.113	89.6	90.4	70.0-123			0.889	20	
Ethylbenzene	0.125	0.108	0.102	86.4	81.6	74.0-126			5.71	20	
Toluene	0.125	0.100	0.0953	80.0	76.2	75.0-121			4.81	20	
Xylenes, Total	0.375	0.289	0.278	77.1	74.1	72.0-127			3.88	20	
(S) Toluene-d8				99.3	94.1	75.0-131					
(S) 4-Bromofluorobenzene				114	104	67.0-138					
(S) 1.2-Dichloroethane-d4				126	129	70 0-130					

L1199114-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1199114-20 03/17/20	S) L1199114-20 03/17/20 06:56 • (MS) R3509307-4 03/17/20 07:16 • (MSD) R3509307-5 03/17/20 07:37											
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Benzene	0.136	U	0.113	0.113	83.2	83.2	1	10.0-149			0.000	37
Ethylbenzene	0.136	U	0.127	0.138	93.6	102	1	10.0-160			8.20	38
Toluene	0.136	U	0.108	0.116	80.0	85.6	1	10.0-156			6.76	38
Xylenes, Total	0.407	U	0.337	0.357	82.9	87.7	1	10.0-160			5.63	38
(S) Toluene-d8					102	101		75.0-131				
(S) 4-Bromofluorobenzene					119	120		67.0-138				
(S) 1,2-Dichloroethane-d4					117	116		70.0-130				















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Volatile Organic Compounds (GC/MS) by Method 8260B <u>L1199114-21,22,23,24,25,26,27,28,29,30,31,32,33</u>

Method Blank (MB)

0 11:20				
MB Result	MB Qualifier	MB MDL	MB RDL	
mg/kg		mg/kg	mg/kg	
U		0.000400	0.00100	
U		0.000530	0.00250	
U		0.00125	0.00500	
U		0.00478	0.00650	
107			75.0-131	
101			67.0-138	
101			70.0-130	
	mg/kg U U U U 107	mg/kg U U U U 107	mg/kg mg/kg U 0.000400 U 0.000530 U 0.00125 U 0.00478 107	mg/kg mg/kg mg/kg U 0.000400 0.00100 U 0.000530 0.00250 U 0.00125 0.00500 U 0.00478 0.00650 107 75.0-131 101 67.0-138

Laboratory Control Sample (LCS)

(LCS) R3509519-1 03/17/2	0 08:50					Ē
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	1
Analyte	mg/kg	mg/kg	%	%		L
Benzene	0.125	0.110	88.0	70.0-123		8
Ethylbenzene	0.125	0.139	111	74.0-126		
Toluene	0.125	0.115	92.0	75.0-121		Ī
Xylenes, Total	0.375	0.423	113	72.0-127		ľ
(S) Toluene-d8			104	75.0-131		L
(S) 4-Bromofluorobenzene			103	67.0-138		
(S) 1.2-Dichloroethane-d4			104	70 O-130		

L1199073-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

	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	0.125	ND	0.0649	0.0396	51.9	31.7	1	10.0-149		<u>J3</u>	48.4	37
Ethylbenzene	0.125	ND	0.0789	0.0451	63.1	36.1	1	10.0-160		<u>J3</u>	54.5	38
Toluene	0.125	ND	0.0678	0.0410	54.2	32.8	1	10.0-156		<u>J3</u>	49.3	38
Kylenes, Total	0.375	ND	0.243	0.151	64.8	40.3	1	10.0-160		<u>J3</u>	46.7	38
(S) Toluene-d8					105	101		75.0-131				
(S) 4-Bromofluorobenzene					97.9	106		67.0-138				
(S) 1,2-Dichloroethane-d4					103	108		70.0-130				

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

L1199114-34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53

Method Blank (MB)

	MB Result	MB Qualifier	MB MDL	MB RDL
	WID RESUIT	WID Qualifier	IND INDE	IND KDL
Analyte	mg/kg		mg/kg	mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	104			75.0-131
(S) 4-Bromofluorobenzene	91.8			67.0-138
(S) 1,2-Dichloroethane-d4	98.6			70.0-130

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

(LCS) R3510640-1 03/18/2	20 06:33 • (LCSI)) R3510640-:	2 03/18/20 06:	54							
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%	
Benzene	0.125	0.122	0.119	97.6	95.2	70.0-123			2.49	20	
Ethylbenzene	0.125	0.111	0.116	88.8	92.8	74.0-126			4.41	20	
Toluene	0.125	0.122	0.143	97.6	114	75.0-121			15.8	20	
Xylenes, Total	0.375	0.323	0.338	86.1	90.1	72.0-127			4.54	20	
(S) Toluene-d8				101	124	75.0-131					
(S) 4-Bromofluorobenzene				76.1	92.4	67.0-138					
(S) 1,2-Dichloroethane-d4				120	122	70.0-130					

L1199114-53 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1199114-53 03/18/20	DS) L1199114-53 03/18/20 14:48 • (MS) R3510640-4 03/18/20 15:08 • (MSD) R3510640-5 03/18/20 15:29												
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%	
Benzene	0.134	U	0.0913	0.0378	68.1	28.2	1	10.0-149		<u>J3</u>	83.0	37	
Ethylbenzene	0.134	U	0.0880	0.0349	65.6	26.0	1	10.0-160		<u>J3</u>	86.5	38	
Toluene	0.134	U	0.0954	0.0388	71.1	29.0	1	10.0-156		<u>J3</u>	84.3	38	
Xylenes, Total	0.402	U	0.269	0.113	66.9	28.0	1	10.0-160		<u>J3</u>	82.0	38	
(S) Toluene-d8					106	103		75.0-131					
(S) 4-Bromofluorobenzene					92.9	94.9		67.0-138					
(S) 1,2-Dichloroethane-d4					107	104		70.0-130					















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

L1199114-54,55,56,57

Method Blank (MB)

	MB Result	MB Qualifier			
Analyte		MD Qualifier	MB MDL	MB RDL	
	mg/kg		mg/kg	mg/kg	
Benzene	U		0.000400	0.00100	
Ethylbenzene	U		0.000530	0.00250	
Toluene	U		0.00125	0.00500	
Xylenes, Total	U		0.00478	0.00650	
(S) Toluene-d8	103			75.0-131	
(S) 4-Bromofluorobenzene	102			67.0-138	
(S) 1,2-Dichloroethane-d4	97.4			70.0-130	

Laboratory Control Sample (LCS)

(LCS) R3511093-1 03/17/20	0 16:14					- F
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	ď
Analyte	mg/kg	mg/kg	%	%		L
Benzene	0.125	0.109	87.2	70.0-123		8
Ethylbenzene	0.125	0.114	91.2	74.0-126		
Toluene	0.125	0.107	85.6	75.0-121		Г
Xylenes, Total	0.375	0.366	97.6	72.0-127		٦
(S) Toluene-d8			102	75.0-131		L
(S) 4-Bromofluorobenzene			101	67.0-138		
(S) 1.2-Dichloroethane-d4			102	70.0-130		

L1199114-57 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1199114-57 03/17/20	DS) L1199114-57 03/17/20 18:27 • (MS) R3511093-3 03/17/20 23:48 • (MSD) R3511093-4 03/18/20 00:07												
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%	
Benzene	0.131	U	0.127	0.121	96.8	92.0	1	10.0-149			5.08	37	
Ethylbenzene	0.131	U	0.125	0.119	95.2	90.4	1	10.0-160			5.17	38	
Toluene	0.131	U	0.125	0.121	95.2	92.0	1	10.0-156			3.42	38	
Xylenes, Total	0.394	U	0.402	0.383	102	97.1	1	10.0-160			4.83	38	
(S) Toluene-d8					100	101		75.0-131					
(S) 4-Bromofluorobenzene					97.2	98.6		67.0-138					
(S) 1,2-Dichloroethane-d4					97.0	97.1		70.0-130					

Reserved by 1963:16/6/2023 9:22:27 AM

QUALITY CONTROL SUMMARY

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Semi-Volatile Organic Compounds (GC) by Method 8015

L1199114-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16

Method Blank (MB)

(MB) R3509778-1 03/17/	20 20:10			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	il Range U		0.274	4.00
(S) o-Terphenyl	70.1			18.0-148







Laboratory Control Sample (LCS)

(LCS) R3509778-2 03/17	(LCS) R3509778-2 03/17/20 20:23													
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier									
Analyte	mg/kg	mg/kg	%	%										
C10-C28 Diesel Range	50.0	37.5	75.0	50.0-150										
(S) o-Terphenyl			77.2	18.0-148										

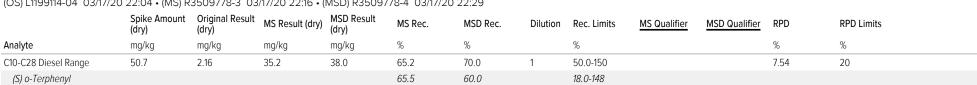






L1199114-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

	, , , ,, , ,							
- ((751 119911 <u>4</u> .	.04 03/1//2	0 22:04 • M	15) 23509//8_3	03/17/20 22:16 •	(MSD	1 23509//8-4	03/1//20 22:29
1,		0-7 00/1//2	0 22.07 - (17	13) 1(33037703	03/1//20 22.10 -	(111)	110000770 4	03/1//20 22.23



60.0







65.5

18.0-148

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Semi-Volatile Organic Compounds (GC) by Method 8015

L1199114-17,18,19,20,21,22,23,24,25,26,27,28,29

Method Blank (MB)

(MB) R3510563-1 03/19/	/20 21:00			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	64.3			18.0-148







Laboratory Control Sample (LCS)

(LCS) R3510563-2 03/19/2	S) R3510563-2 03/19/20 21:19													
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier									
Analyte	mg/kg	mg/kg	%	%										
C10-C28 Diesel Range	50.0	36.5	73.0	50.0-150										
(S) o-Terphenyl			83.2	18.0-148										







L1199114-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(05) [1199114-20	03/19/20 21.57	(MS) R3510563-3	03/19/20 22:14 •	(MSD	R3510563-4	03/19/20 22:27
	_1133117-20	03/13/20 21.3/	(1813) 13310303-3	03/13/20 22.17	(1713)	1113310303-4	03/13/20 22.27

(O3) L1133114-20 O3/13	/20 21.3/ • (IVI3) K	3310303-3 03/	13/20 22.14 • (VI3D) K331030	03/19/20	22.21							L
	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	%	%		%			%	%	L
C10-C28 Diesel Range	53.3	U	36.4	36.8	68.3	69.5	1	50.0-150			0.889	20	
(S) o-Terphenyl					65.7	65.8		18.0-148					







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Semi-Volatile Organic Compounds (GC) by Method 8015

L1199114-50,51,52,53,54,55,56,57

Method Blank (MB)

(MB) R3510569-1 03/19/2	(MB) R3510569-1 03/19/20 22:30							
	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-C40 Oil Range	U		0.274	4.00				
(S) o-Terphenyl	75.4			18.0-148				

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Laboratory Control Sample (LCS)

/20 22:44					
Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	
mg/kg	mg/kg	%	%		
50.0	43.2	86.4	50.0-150		
		95.9	18.0-148		
	mg/kg	Spike Amount LCS Result mg/kg mg/kg	Spike Amount LCS Result LCS Rec. mg/kg mg/kg % 50.0 43.2 86.4	Spike Amount LCS Result LCS Rec. Rec. Limits mg/kg mg/kg % % 50.0 43.2 86.4 50.0-150	Spike Amount LCS Result LCS Rec. Rec. Limits LCS Qualifier mg/kg mg/kg % % 50.0 43.2 86.4 50.0-150







L1198863-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

1	051	11100063-1/	03/20/20 03:10 •	(NAC	D3510569-3	03/20/20 03:23 •	(MSD	D3510569_/	03/20/20 03:36
- ($\cup_{\mathcal{S}_i}$	L1130003-14	03/20/20 03.10 •	رداناا)	1 K3310303-3	03/20/20 03.23 •	(17130	7 K3310303-4	03/20/20 03.30

⁹ Sc

· /	, ,			, ,								
	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	%	%		%			%	%
C10-C28 Diesel Range	50.0	ND	53.2	48.5	76.4	67.0	5	50.0-150			9.24	20
(S) o-Terphenyl					103	95.8		18.0-148				

Sample Narrative:

OS: Cannot run at lower dilution due to viscosity of extract

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L1199114-30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49 Semi-Volatile Organic Compounds (GC) by Method 8015

Method Blank (MB)

(MB) R3510943-3 03/21	/20 12:37			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	58.7			18.0-148



Laboratory Control Sample (LCS)

(LCS) R3510943-4 03/21/20 12:50							
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier		
Analyte	mg/kg	mg/kg	%	%			
C10-C28 Diesel Range	50.0	36.1	72.2	50.0-150			
(S) o-Terphenyl			81.2	18.0-148			





L1199114-30 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

	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	55.3	416	452	488	64.4	129	20	50.0-150			7.58	20
(S) o-Terphenyl					63.9	57.6		18.0-148	<u>J7</u>	<u>J7</u>		







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

ADDIEVIGLIONS GIV	
(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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
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 resul 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.

The same analyte is found in the associated blank.
The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
The identification of the analyte is acceptable; the reported value is an estimate.
Surrogate recovery limits have been exceeded; values are outside upper control limits.
The associated batch QC was outside the established quality control range for precision.
Surrogate recovery cannot be used for control limit evaluation due to dilution.
RPD value not applicable for sample concentrations less than 5 times the reporting limit.
The sample concentration is too high to evaluate accurate spike recoveries.





















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* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

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California	2932
Colorado	TN00003
Connecticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia ¹	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
lowa	364
Kansas	E-10277
Kentucky 16	90010
Kentucky ²	16
Louisiana	Al30792
Louisiana ¹	LA180010
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086

Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey-NELAP	TN002
New Mexico ¹	n/a
New York	11742
North Carolina	Env375
North Carolina ¹	DW21704
North Carolina ³	41
North Dakota	R-140
Ohio-VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	LAO00356
South Carolina	84004
South Dakota	n/a
Tennessee 1 4	2006
Texas	T104704245-18-15
Texas ⁵	LAB0152
Utah	TN00003
Vermont	VT2006
Virginia	460132
Washington	C847
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

Third Party Federal Accreditations

A2LA – ISO 17025	1461.01
A2LA - ISO 17025 5	1461.02
Canada	1461.01
EPA-Crypto	TN00003

AIHA-LAP,LLC EMLAP	100789
DOD	1461.01
USDA	P330-15-00234

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

Our Locations

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



















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Tetra Tech. Inc.

901 West Wall Street, Suite 100 Midland, Texas 79701

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(LAB USE)		DATE	TIME	WATER	SOIL	HCL	HNO3	ICE	NONE	# CONTAINERS	FILTERED	BTEX 802	TPH TX1005	PAH 8270C	Fotal Metals	rcur Metals	CLP Vola	CLP Semi	SCAMS Vol.	3C/MS Se	PCB's 8082 / 608	PLM (Asbe	Chloride 30	Shloride	Jeneral Water Che Anion/Cation Balar	FPH 8015R	НОГР
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AB USE ONLY	SAMPLE IDENTIFICATION	YEAR: 2020 DATE	TIME	WATER	7			1911	CONTAINERS	FILTERED (Y/N)	80218	TX1005 (Ext to R015M / GRO	8270C	otal Metals Ag A	Metals			MS Vol. 82608 /			(Asbestos)	de Sulfate	neral Water Ch on/Cation Bala	8015R	
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20	AH-6W (3-4')	3/5/2020	1100		X		X		1	N	X	X							1		X		1		
21	AH-7W (0-1')	3/5/2020	1110		X		X		1	N	X	×									X				
22	AH-7W (3-4')	3/5/2020 3/5/2020	1120		X	1	X	1	1-	N	X	X			18	9					X				
13	T-7(1-2')	3/5/2020	1130		4	-	X	1	1	N	Х	X									X	-	all		
	T-7 (3-4')	3/5/2020	1150	×	+		X	1	1	N	Х	×			1	1	34				X	0.4	4	2	Z
-	T-7 (5-6')	3/5/2020	1200	X	-		X	1	1	N	X	X		E							X	9	-		
24	T-7(9-10')	3/5/2020	1220	X	-		X	+	1	N	X	X	1	44	1						X				1
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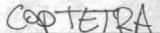
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29	T-8(1-2')	3/6/2020	1130		X		1	-	1	1	X		X	107			7 =	67				X			
30	T-8 (3-4')	3/6/2020	1150		X		X		1	1	X	5	X	1								×			
31	T-8 (7-8')	3/6/2020	1200		×	2	×		1	١	X	24	Х	227				M		4		X			
32	T-8(9-10')	3/6/2020	1210		X		X		1	N	X		X					120				×			
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37	AH-9E (0-1')	3/6/2020	1120		X	1	N	x	10	1	N	х	X								0	x			
38	AH-9E (3-4')	3/6/2020	1130		X		J. Ly	X		1	N	х	×	-							10	X			
39	T-9 (1-2')	3/6/2020	1150		X		19	x	4	7	N	х	X	4			10		H			x	3		
40	T-9 (3-4')	3/6/2020	1200		X	1		х		1	N	x	X			1		1				X			
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42	T-9(9-10')	3/6/2020	1220		х			X		1	N	х	×				1					×			2
43	AH-9W (0-1')	3/6/2020	1300		х			X		-1	N	X	×					41				x			
44	AH-9W (3-4')	3/6/2020	1310		х			Х		1	N	x	×									x			
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Receiving Laboratory:	Pace Analytical	Sampler Sig	nature:	A	dria	n		4					3-MRC			Se Hg	Æ		'n	d	E			attached		
Comments: COPTET	RA Acctnum	HI -	11%			13						82608	C35)		Sr Pb	Cd Cr Pb	A C		4	8270C/625			00	(see	p e	
	remark and all a	SAMP	LING	MA	TRIX	PF		RV	ATIVE		(Y/N)	BTEX	(Ext to C3		9	Ag As Ba	atiles		(m)		0	3		ie ii	lance	
LAB # (LAB USE)	SAMPLE IDENTIFICATION	YEAR: 2020 DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	NONE	# CONTAINERS	FILTERED (Y	BTEX 8021B	PH TX1005 (Ext to C35)		Fotal Metals Ag	P Metals	TCLP Volatiles TCLP Semi Volatiles	1CI	Vol.	acrims semi, vol.	9	PLM (Asbestos)	300.	Seneral Water Ch	Anlon/Cation Bal	НОГР
45	AH-10E (0-1')	3/9/2020	1100		X	-	-	х		-1	N	Х	>	-							1		X			
46	AH-10E (3-4')	3/9/2020	1110		x			X		1	N	х	. >			1					ě		X	40	/die	80
47	AH-10W (0-1')	3/9/2020	1120		X	10		X		1.	N	х	>				9	10	100				х			
44	AH-10W (3-4')	3/9/2020	1130		X			х		1	N	Х)					E	e	1		1	Х			
49	T-10 (1-2')	3/9/2020	1150		X	1	0	X		1	N	х)					0					X	18		
	T-10 (5-6')	3/9/2020	1200		X			X	7	1	N	X)										X			X
	T-10 (9-10')	3/9/2020	1210		X			х	1	1	N	X)									d	X			X
50	T-10(14-15')	3/9/2020	1220		X			X		1	N	Х)	(1	(9)	X		3	B 1/2
51	T-9(16'-17')	3/10/2020	1300		X			X		1	N	Х)	4		0.4	44						×			
52	AH-11W(0-1')	3/10/2020	1050		X			X		1	N	X)	(1	X	N.	10	
Relinquished by: Relinquished by:	Date: Time;	Received by:	In	1	1	3/1:	ate:		Time:	f:/<	5	Sar		NL)	1		X	St	andar		e Day	24	hr.	48 hr.	72 hr.	
Relinquished by:	3/12/20 17:00 Date: Time:	Received by:	A 10	n for	5	120	ate:	20	Time	80									sh Ch					Repo	rt	
	: 1/25/2024 2:29:01 PM	ORIGINA	talk	015	/	D)	11		1	66		(Ci	rcle)	HAN	D DE	LIVE	RED	FE	DEX	UP	S	rack	ing #:			



Page 187 of 425
Page: 7 of 7



Tetra Tech, Inc.

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

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Client Name:	Conoco Phillips	Site Manage	r:	Chi	ristian	LJull						18		Š,	10:						EQI			6		13
Project Name:	COP MCA 2 C Header Release	Contact Info				hristia 512)			etratec	h.con	1	1	1	1	(01	rcie	e 0	1	pe	CITY	/ IVI	etn 	00	No	-)	
Project Location: (county, state)	Lea County, New Mexico	Project #:		212	2C-MI	D-021	19		1						h		1					V	4		lij	
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 7970	1			1				1				10					L				И	f	(Ist)		
Receiving Laboratory:	Pace Analytical	Sampler Sig	nature:		Adria	in							O. MB		Se Hg	Se Hg		L			V	M		attached		
Comments: COPTE	TRA Acctnum		A-in-		J							8260B	C36)		Metals Ag As Ba Cd Cr Pb Se Hg	Cd Cr Pb		1	10.00	8270C/625	4			see (see		
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(LAB USE)		DATE	TIME	WATE	SOIL	HCL	FONH.	ICE	NONE	# CON	FILTER		TPH T		Total M	TCLPN	TCLPV	HC!	GC/MS	GC/MS	PCB's NORM	PLM (A	Chloride	Chloride General 1	Anion/C	TPH 801
53	AH-11W (3-4')	3/10/2020	1100		X			X	7/5	1	N	Х)	(pl?	1					Х	-		THE REAL PROPERTY.
54	AH-11E (0-1')	3/10/2020	1110		Х			Х		1	N	X)	<		ď						1	Х			
55	AH-11E (3-4')	3/10/2020	1120		X			Х		1	N	Х)	<	13	8	7	1			7		Х			
56	T-11 (1-2')	3/10/2020	1130		X			X		1	N	Х)	(100		Х	8-		
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	T-11 (9-10')	3/10/2020	1200		X	9		X		1	N	Х)	(1	V		- 1		X			
57	T-11 (14-15')	3/10/2020	1210	1	х			×		1	N	X)	(I S			И		5			Х		9	- 2
		10.00		+		+								1										A		
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Pace Analytical National Center for Testing & In Cooler Receipt Form	novation	
	11991	14
Client: ColletteA Coaler Possived/Opened On: 3 13 20 Temperatur	11111	100
Cooler Received/Opened Cit. 3 1/5	The second second	
Received By: Willie Taylor 8:00		
Signature: Willie landy	5 建规定	
Control of the Contro	A BENTSON	Statistical deli-
Receipt Check List NP	Yes	No
COC Seal Present / Intact?		Mary Charles
COC Signed / Accurate?		
Bottles arrive intact?		e Gallerian
Correct bottles used?	-	
Sufficient volume sent?	and the same	e Wantes/alleli
If Applicable		3
VOA Zero headspace?	etic linesuors	(Frenchisto)
Preservation Correct / Checked?		



ANALYTICAL REPORT

July 28, 2020

Revised Report

ConocoPhillips - Tetra Tech

Project Number:

Sample Delivery Group: L1238345

Samples Received: 07/10/2020

Description: COP MCA 2-C Header Release

Site: LEA COUNTY, NEW MEXICO

Report To: Christian Llull

901 West Wall

212C-MD-02119

Suite 100

Midland, TX 79701

ΑI

Sc

Entire Report Reviewed By:

Chris McCord

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















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Sc: Sample Chain of Custody

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SAMPLE SUMMARY



AH-1S-2 0-1FT L1238345-01 Solid			Collected by John Myler	Collected date/time 07/08/20 12:00	Received da 07/10/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508708	1	07/14/20 23:25	07/14/20 23:35	KBC	Mt. Juliet, TN
Vet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/13/20 23:32	ELN	Mt. Juliet, TN
/olatile Organic Compounds (GC) by Method 8015D/GRO	WG1507601	1	07/10/20 21:04	07/12/20 00:21	AV	Mt. Juliet, TN
/olatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 13:59	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 13:15	KLM	Mt. Juliet, TN
AH-1S-2 2-3FT L1238345-02 Solid			Collected by John Myler	Collected date/time 07/08/20 12:30	Received da 07/10/20 08:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
otal Solids by Method 2540 G-2011	WG1508708	1	07/14/20 23:25	07/14/20 23:35	KBC	Mt. Juliet, TN
Vet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/13/20 23:50	ELN	Mt. Juliet, TN
/olatile Organic Compounds (GC) by Method 8015D/GRO	WG1507601	1	07/10/20 21:04	07/12/20 00:41	AV	Mt. Juliet, TN
/olatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 14:19	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 12:33	KLM	Mt. Juliet, TN
AH-5S-2 0-1FT L1238345-03 Solid			Collected by John Myler	Collected date/time 07/08/20 13:30	Received da 07/10/20 08:	
Method	Batch	Dilution	Preparation	Analysis date/time	Analyst	Location
otal Solids by Method 2540 G-2011	WG1508708	1	date/time 07/14/20 23:25	07/14/20 23:35	KBC	Mt. Juliet, TN
Vet Chemistry by Method 300.0	WG1507969	1	07/13/20 23:23	07/14/20 23:33	ELN	Mt. Juliet, TN
olatile Organic Compounds (GC) by Method 8015D/GRO	WG1507601	1	07/10/20 21:04	07/12/20 01:02	AV	Mt. Juliet, TN
olatile Organic Compounds (GC/MS) by Method 8260B	WG1507701	1	07/10/20 21:04	07/12/20 01:02	DWR	Mt. Juliet, TN
emi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 11:19	KLM	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AH-5S-2 2-3FT L1238345-04 Solid			John Myler	07/08/20 14:00	07/10/20 08:	30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
otal Solids by Method 2540 G-2011	WG1508708	1	07/14/20 23:25	07/14/20 23:35	KBC	Mt. Juliet, TN
/et Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 00:27	ELN	Mt. Juliet, TN
olatile Organic Compounds (GC) by Method 8015D/GRO	WG1507601	1	07/10/20 21:04	07/12/20 01:22	AV	Mt. Juliet, TN
olatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 14:59	DWR	Mt. Juliet, TN
emi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/17/20 16:09	FM	Mt. Juliet, TN
AH-7W-2 0-1FT L1238345-05 Solid			Collected by John Myler	Collected date/time 07/08/20 14:30	Received da 07/10/20 08:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time	•	
otal Solids by Method 2540 G-2011	WG1508708	1	07/14/20 23:25	07/14/20 23:35	KBC	Mt. Juliet, TN
Vet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 01:04	ELN	Mt. Juliet, TN
olatile Organic Compounds (GC) by Method 8015D/GRO	WG1507601	1	07/10/20 21:04	07/12/20 01:43	AV	Mt. Juliet, TN
/olatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 15:19	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 13:28	KLM	Mt. Juliet, TN



















SAMPLE SUMMARY



AH-7W-2 2-3FT L1238345-06 Solid			Collected by John Myler	Collected date/time 07/08/20 15:00	Received da 07/10/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
otal Solids by Method 2540 G-2011	WG1508708	1	07/14/20 23:25	07/14/20 23:35	KBC	Mt. Juliet, TN
/et Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 01:22	ELN	Mt. Juliet, TN
olatile Organic Compounds (GC) by Method 8015D/GRO	WG1507601	1	07/10/20 21:04	07/12/20 02:03	AV	Mt. Juliet, TN
olatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 15:39	DWR	Mt. Juliet, TN
emi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 14:01	KLM	Mt. Juliet, TN
AH-7E-2 0-1FT L1238345-07 Solid			Collected by John Myler	Collected date/time 07/08/20 15:30	Received da 07/10/20 08:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
otal Solids by Method 2540 G-2011	WG1508708	1	07/14/20 23:25	07/14/20 23:35	KBC	Mt. Juliet, TN
/et Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 02:54	ELN	Mt. Juliet, TN
olatile Organic Compounds (GC) by Method 8015D/GRO	WG1507614	1	07/10/20 21:04	07/12/20 03:45	BMB	Mt. Juliet, TN
olatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 15:59	DWR	Mt. Juliet, TN
emi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/17/20 00:20	KLM	Mt. Juliet, TN
NH-7E-2 2-3FT L1238345-08 Solid			Collected by John Myler	Collected date/time 07/08/20 16:00	Received da 07/10/20 08:	
lethod	Batch	Dilution	Preparation	Analysis	Analyst	Location
and Calife his Made at 25 AO C 2004	WC4F00700	1	date/time	date/time	KDC	MA Indian TNI
otal Solids by Method 2540 G-2011	WG1508708	1	07/14/20 23:25	07/14/20 23:35	KBC	Mt. Juliet, TN
et Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 03:13	ELN	Mt. Juliet, TN
platile Organic Compounds (GC) by Method 8015D/GRO	WG1507614 WG1507711	1	07/10/20 21:04	07/12/20 04:07 07/12/20 16:18	BMB DWR	Mt. Juliet, TN Mt. Juliet, TN
olatile Organic Compounds (GC/MS) by Method 8260B emi-Volatile Organic Compounds (GC) by Method 8015	WG1507711 WG1507584	1 1	07/10/20 21:04 07/15/20 09:09	07/16/20 12:19	KLM	Mt. Juliet, TN
AH-11W-2 0-1FT L1238345-09 Solid			Collected by John Myler	Collected date/time 07/08/20 16:30	Received da 07/10/20 08:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
otal Solids by Method 2540 G-2011	WG1508709	1	date/time 07/14/20 23:12		KBC.	Mt. Juliet. TN
•	WG1508709 WG1507969	1 1	07/14/20 23:12	07/14/20 23:22	KBC ELN	
et Chemistry by Method 300.0	WG1507969	1 1 1	07/14/20 23:12 07/13/20 21:00		ELN	Mt. Juliet, TN
et Chemistry by Method 300.0 Datile Organic Compounds (GC) by Method 8015D/GRO	WG1507969 WG1507614	1	07/14/20 23:12 07/13/20 21:00 07/10/20 21:04	07/14/20 23:22 07/14/20 03:31	ELN BMB	Mt. Juliet, TN Mt. Juliet, TN
ret Chemistry by Method 300.0 olatile Organic Compounds (GC) by Method 8015D/GRO olatile Organic Compounds (GC/MS) by Method 8260B	WG1507969	1 1	07/14/20 23:12 07/13/20 21:00	07/14/20 23:22 07/14/20 03:31 07/12/20 04:29	ELN	Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN
otal Solids by Method 2540 G-2011 /et Chemistry by Method 300.0 olatile Organic Compounds (GC) by Method 8015D/GRO olatile Organic Compounds (GC/MS) by Method 8260B emi-Volatile Organic Compounds (GC) by Method 8015	WG1507969 WG1507614 WG1507711	1 1 1	07/14/20 23:12 07/13/20 21:00 07/10/20 21:04 07/10/20 21:04	07/14/20 23:22 07/14/20 03:31 07/12/20 04:29 07/12/20 16:38	ELN BMB DWR	
/et Chemistry by Method 300.0 olatile Organic Compounds (GC) by Method 8015D/GRO olatile Organic Compounds (GC/MS) by Method 8260B emi-Volatile Organic Compounds (GC) by Method 8015 AH-11W-2 2-3FT L1238345-10 Solid	WG1507969 WG1507614 WG1507711	1 1 1	07/14/20 23:12 07/13/20 21:00 07/10/20 21:04 07/10/20 21:04 07/15/20 09:09 Collected by John Myler	07/14/20 23:22 07/14/20 03:31 07/12/20 04:29 07/12/20 16:38 07/16/20 23:39 Collected date/time 07/08/20 17:00	ELN BMB DWR KLM	Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN
Vet Chemistry by Method 300.0 olatile Organic Compounds (GC) by Method 8015D/GRO olatile Organic Compounds (GC/MS) by Method 8260B emi-Volatile Organic Compounds (GC) by Method 8015 AH-11W-2 2-3FT L1238345-10 Solid lethod	WG1507969 WG1507614 WG1507711 WG1507584 Batch	1 1 1 1	07/14/20 23:12 07/13/20 21:00 07/10/20 21:04 07/10/20 21:04 07/15/20 09:09 Collected by John Myler Preparation date/time	07/14/20 23:22 07/14/20 03:31 07/12/20 04:29 07/12/20 16:38 07/16/20 23:39 Collected date/time 07/08/20 17:00 Analysis date/time	ELN BMB DWR KLM Received da 07/10/20 08:	Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN te/time
Vet Chemistry by Method 300.0 olatile Organic Compounds (GC) by Method 8015D/GRO olatile Organic Compounds (GC/MS) by Method 8260B emi-Volatile Organic Compounds (GC) by Method 8015 AH-11W-2 2-3FT L1238345-10 Solid lethod otal Solids by Method 2540 G-2011	WG1507969 WG1507614 WG1507711 WG1507584 Batch	1 1 1 1 Dilution	07/14/20 23:12 07/13/20 21:00 07/10/20 21:04 07/10/20 21:04 07/15/20 09:09 Collected by John Myler Preparation date/time 07/14/20 23:12	07/14/20 23:22 07/14/20 03:31 07/12/20 04:29 07/12/20 16:38 07/16/20 23:39 Collected date/time 07/08/20 17:00 Analysis date/time 07/14/20 23:22	ELN BMB DWR KLM Received da 07/10/20 08:	Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN te/time 30 Location Mt. Juliet, TN
Vet Chemistry by Method 300.0 olatile Organic Compounds (GC) by Method 8015D/GRO olatile Organic Compounds (GC/MS) by Method 8260B emi-Volatile Organic Compounds (GC) by Method 8015 AH-11W-2 2-3FT L1238345-10 Solid lethod otal Solids by Method 2540 G-2011 Vet Chemistry by Method 300.0	WG1507969 WG1507614 WG1507711 WG1507584 Batch WG1508709 WG1507969	1 1 1 1 Dilution	07/14/20 23:12 07/13/20 21:00 07/10/20 21:04 07/10/20 21:04 07/15/20 09:09 Collected by John Myler Preparation date/time 07/14/20 23:12 07/13/20 21:00	07/14/20 23:22 07/14/20 03:31 07/12/20 04:29 07/12/20 16:38 07/16/20 23:39 Collected date/time 07/08/20 17:00 Analysis date/time 07/14/20 23:22 07/14/20 03:50	ELN BMB DWR KLM Received da 07/10/20 08: Analyst KBC ELN	Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN te/time 30 Location Mt. Juliet, TN Mt. Juliet, TN
/et Chemistry by Method 300.0 olatile Organic Compounds (GC) by Method 8015D/GRO olatile Organic Compounds (GC/MS) by Method 8260B emi-Volatile Organic Compounds (GC) by Method 8015	WG1507969 WG1507614 WG1507711 WG1507584 Batch	1 1 1 1 Dilution	07/14/20 23:12 07/13/20 21:00 07/10/20 21:04 07/10/20 21:04 07/15/20 09:09 Collected by John Myler Preparation date/time 07/14/20 23:12	07/14/20 23:22 07/14/20 03:31 07/12/20 04:29 07/12/20 16:38 07/16/20 23:39 Collected date/time 07/08/20 17:00 Analysis date/time 07/14/20 23:22	ELN BMB DWR KLM Received da 07/10/20 08:	Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN te/time



















SAMPLE SUMMARY



AH-9W-2 0-1FT L1238345-11 Solid			Collected by John Myler	Collected date/time 07/08/20 17:30	Received da 07/10/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508709	1	07/14/20 23:12	07/14/20 23:22	KBC	Mt. Juliet, TN
Vet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 04:08	ELN	Mt. Juliet, TN
olatile Organic Compounds (GC) by Method 8015D/GRO	WG1507614	1	07/10/20 21:04	07/12/20 05:14	BMB	Mt. Juliet, TN
/olatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 17:18	DWR	Mt. Juliet, TN
emi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/17/20 00:06	KLM	Mt. Juliet, TN
AH-9N 0-1FT L1238345-13 Solid			Collected by John Myler	Collected date/time 07/08/20 18:30	Received da 07/10/20 08:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
otal Solids by Method 2540 G-2011	WG1508709	1	07/14/20 23:12	07/14/20 23:22	KBC	Mt. Juliet, TN
Vet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 04:27	ELN	Mt. Juliet, TN
olatile Organic Compounds (GC) by Method 8015D/GRO	WG1507614	1	07/10/20 21:04	07/12/20 05:36	BMB	Mt. Juliet, TN
olatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 17:38	DWR	Mt. Juliet, TN
emi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 22:31	KLM	Mt. Juliet, TN
AH-9N 2-3FT L1238345-14 Solid			Collected by John Myler	Collected date/time 07/08/20 19:00	Received da 07/10/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
otal Solids by Method 2540 G-2011	WG1508709	1	07/14/20 23:12	07/14/20 23:22	KBC	Mt. Juliet, TN
/et Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 04:45	ELN	Mt. Juliet, TN
olatile Organic Compounds (GC) by Method 8015D/GRO	WG1507614	1	07/10/20 21:04	07/12/20 05:58	BMB	Mt. Juliet, TN
olatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 17:58	DWR	Mt. Juliet, TN
emi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 14:14	KLM	Mt. Juliet, TN
AH-8W-2 0-1FT L1238345-15 Solid			Collected by John Myler	Collected date/time 07/08/20 19:30	Received da 07/10/20 08:	
<i>M</i> ethod	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
			07/14/20 23:12	07/14/20 23:22	KBC	Mt. Juliet, TN
otal Solids by Method 2540 G-2011	WG1508709	1	07711720 20.12			
•	WG1508709 WG1507969	1	07/13/20 21:00	07/14/20 05:03	ELN	Mt. Juliet, TN
Vet Chemistry by Method 300.0						
let Chemistry by Method 300.0 olatile Organic Compounds (GC) by Method 8015D/GRO	WG1507969	1	07/13/20 21:00	07/14/20 05:03	ELN	Mt. Juliet, TN Mt. Juliet, TN
ret Chemistry by Method 300.0 olatile Organic Compounds (GC) by Method 8015D/GRO olatile Organic Compounds (GC/MS) by Method 8260B	WG1507969 WG1507614	1 1	07/13/20 21:00 07/10/20 21:04	07/14/20 05:03 07/12/20 06:21	ELN BMB	Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN
otal Solids by Method 2540 G-2011 Vet Chemistry by Method 300.0 Volatile Organic Compounds (GC) by Method 8015D/GRO Volatile Organic Compounds (GC/MS) by Method 8260B vemi-Volatile Organic Compounds (GC) by Method 8015	WG1507969 WG1507614 WG1507711	1 1 1	07/13/20 21:00 07/10/20 21:04 07/10/20 21:04	07/14/20 05:03 07/12/20 06:21 07/12/20 18:18	ELN BMB DWR	Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN
Vet Chemistry by Method 300.0 Volatile Organic Compounds (GC) by Method 8015D/GRO Volatile Organic Compounds (GC/MS) by Method 8260B Volatile Organic Compounds (GC) by Method 8015 Volatile Organic Compounds (GC) by Method 8015 Volatile Organic Compounds (GC) by Method 8015	WG1507969 WG1507614 WG1507711	1 1 1	07/13/20 21:00 07/10/20 21:04 07/10/20 21:04 07/15/20 09:09 Collected by John Myler	07/14/20 05:03 07/12/20 06:21 07/12/20 18:18 07/16/20 22:45 Collected date/time 07/08/20 20:00	ELN BMB DWR KLM	Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN
Vet Chemistry by Method 300.0 Polatile Organic Compounds (GC) by Method 8015D/GRO Polatile Organic Compounds (GC/MS) by Method 8260B Polatile Organic Compounds (GC) by Method 8015 AH-8W-2 2-3FT L1238345-16 Solid Polatile Organic Compounds (GC) by Method 8015	WG1507969 WG1507614 WG1507711 WG1507584 Batch	1 1 1 1	07/13/20 21:00 07/10/20 21:04 07/10/20 21:04 07/15/20 09:09 Collected by John Myler Preparation date/time	07/14/20 05:03 07/12/20 06:21 07/12/20 18:18 07/16/20 22:45 Collected date/time 07/08/20 20:00 Analysis date/time	ELN BMB DWR KLM Received da 07/10/20 08:	Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN te/time
Vet Chemistry by Method 300.0 Volatile Organic Compounds (GC) by Method 8015D/GRO Volatile Organic Compounds (GC/MS) by Method 8260B Vemi-Volatile Organic Compounds (GC) by Method 8015 VAH-8W-2 2-3FT L1238345-16 Solid Vethod Votal Solids by Method 2540 G-2011	WG1507969 WG1507614 WG1507711 WG1507584 Batch	1 1 1 1 Dilution	07/13/20 21:00 07/10/20 21:04 07/10/20 21:04 07/15/20 09:09 Collected by John Myler Preparation date/time 07/14/20 23:12	07/14/20 05:03 07/12/20 06:21 07/12/20 18:18 07/16/20 22:45 Collected date/time 07/08/20 20:00 Analysis date/time 07/14/20 23:22	ELN BMB DWR KLM Received da 07/10/20 08:	Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN te/time 30 Location Mt. Juliet, TN
Vet Chemistry by Method 300.0 Volatile Organic Compounds (GC) by Method 8015D/GRO Volatile Organic Compounds (GC/MS) by Method 8260B Vemi-Volatile Organic Compounds (GC) by Method 8015 AH-8W-2 2-3FT L1238345-16 Solid Method Otal Solids by Method 2540 G-2011 Vet Chemistry by Method 300.0	WG1507969 WG1507614 WG1507711 WG1507584 Batch WG1508709 WG1507969	1 1 1 1 Dilution	07/13/20 21:00 07/10/20 21:04 07/10/20 21:04 07/15/20 09:09 Collected by John Myler Preparation date/time 07/14/20 23:12 07/13/20 21:00	07/14/20 05:03 07/12/20 06:21 07/12/20 18:18 07/16/20 22:45 Collected date/time 07/08/20 20:00 Analysis date/time 07/14/20 23:22 07/14/20 05:22	ELN BMB DWR KLM Received da 07/10/20 08: Analyst KBC ELN	Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN te/time 30 Location Mt. Juliet, TN Mt. Juliet, TN
Vet Chemistry by Method 300.0 Colatile Organic Compounds (GC) by Method 8015D/GRO Colatile Organic Compounds (GC/MS) by Method 8260B emi-Volatile Organic Compounds (GC) by Method 8015	WG1507969 WG1507614 WG1507711 WG1507584 Batch	1 1 1 1 Dilution	07/13/20 21:00 07/10/20 21:04 07/10/20 21:04 07/15/20 09:09 Collected by John Myler Preparation date/time 07/14/20 23:12	07/14/20 05:03 07/12/20 06:21 07/12/20 18:18 07/16/20 22:45 Collected date/time 07/08/20 20:00 Analysis date/time 07/14/20 23:22	ELN BMB DWR KLM Received da 07/10/20 08:	Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN te/time



















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



















Chris McCord Project Manager

Report Revision History

Level II Report - Version 1: 07/20/20 17:24

SAMPLE RESULTS - 01 L1238345

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Collected date/time: 07/08/20 12:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	93.4		1	07/14/2020 23:35	WG1508708



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	07/13/2020 23:32	WG1507969



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		0.0232	0.107	1	07/12/2020 00:21	WG1507601
(S) a,a,a-Trifluorotoluene(FID)	89.2			77.0-120		07/12/2020 00:21	WG1507601



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

3	- 1	(, - ,	,				
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000500	0.00107	1	07/12/2020 13:59	WG1507711
Toluene	U		0.00139	0.00535	1	07/12/2020 13:59	WG1507711
Ethylbenzene	U		0.000789	0.00268	1	07/12/2020 13:59	WG1507711
Total Xylenes	U		0.000942	0.00696	1	07/12/2020 13:59	WG1507711
(S) Toluene-d8	104			75.0-131		07/12/2020 13:59	WG1507711
(S) 4-Bromofluorobenzene	101			67.0-138		07/12/2020 13:59	WG1507711
(S) 1,2-Dichloroethane-d4	108			70.0-130		07/12/2020 13:59	WG1507711

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.23	<u>J</u>	1.72	4.28	1	07/16/2020 13:15	WG1507584
C28-C40 Oil Range	14.3		0.293	4.28	1	07/16/2020 13:15	WG1507584
(S) o-Terphenyl	52.4			18.0-148		07/16/2020 13:15	WG1507584

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Collected date/time: 07/08/20 12:30

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	96.4		1	07/14/2020 23:35	WG1508708



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.54	20.7	1	07/13/2020 23:50	WG1507969



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		0.0225	0.104	1	07/12/2020 00:41	WG1507601
(S) a,a,a-Trifluorotoluene(FID)	88.7			77.0-120		07/12/2020 00:41	WG1507601



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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	07/12/2020 14:19	WG1507711
Toluene	U		0.00135	0.00519	1	07/12/2020 14:19	WG1507711
Ethylbenzene	U		0.000764	0.00259	1	07/12/2020 14:19	WG1507711
Total Xylenes	U		0.000913	0.00674	1	07/12/2020 14:19	WG1507711
(S) Toluene-d8	104			75.0-131		07/12/2020 14:19	WG1507711
(S) 4-Bromofluorobenzene	103			67.0-138		07/12/2020 14:19	WG1507711
(S) 1,2-Dichloroethane-d4	111			70.0-130		07/12/2020 14:19	WG1507711



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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.53	<u>J</u>	1.67	4.15	1	07/16/2020 12:33	WG1507584
C28-C40 Oil Range	11.7		0.284	4.15	1	07/16/2020 12:33	WG1507584
(S) o-Terphenyl	52.0			18.0-148		07/16/2020 12:33	WG1507584



Collected date/time: 07/08/20 13:30

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	82.9		1	07/14/2020 23:35	WG1508708



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	11.8	<u>J</u>	11.1	24.1	1	07/14/2020 00:09	WG1507969



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	0.0282	<u>J</u>	0.0262	0.121	1	07/12/2020 01:02	WG1507601
(S) a,a,a-Trifluorotoluene(FID)	87.5			77.0-120		07/12/2020 01:02	WG1507601



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000661	0.00141	1	07/12/2020 14:39	WG1507711
Toluene	U		0.00184	0.00707	1	07/12/2020 14:39	WG1507711
Ethylbenzene	U		0.00104	0.00354	1	07/12/2020 14:39	WG1507711
Total Xylenes	U		0.00125	0.00920	1	07/12/2020 14:39	WG1507711
(S) Toluene-d8	104			75.0-131		07/12/2020 14:39	WG1507711
(S) 4-Bromofluorobenzene	100			67.0-138		07/12/2020 14:39	WG1507711
(S) 1,2-Dichloroethane-d4	110			70.0-130		07/12/2020 14:39	WG1507711



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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.94	4.83	1	07/16/2020 11:19	WG1507584
C28-C40 Oil Range	4.44	BJ	0.331	4.83	1	07/16/2020 11:19	WG1507584
(S) o-Terphenyl	46.9			18.0-148		07/16/2020 11:19	WG1507584

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Collected date/time: 07/08/20 14:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	93.6		1	07/14/2020 23:35	WG1508708



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.83	21.4	1	07/14/2020 00:27	WG1507969



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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		0.0232	0.107	1	07/12/2020 01:22	WG1507601
(S) a,a,a-Trifluorotoluene(FID)	89.1			77.0-120		07/12/2020 01:22	WG1507601



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000499	0.00107	1	07/12/2020 14:59	WG1507711
Toluene	U		0.00139	0.00534	1	07/12/2020 14:59	WG1507711
Ethylbenzene	U		0.000788	0.00267	1	07/12/2020 14:59	WG1507711
Total Xylenes	U		0.000940	0.00695	1	07/12/2020 14:59	WG1507711
(S) Toluene-d8	107			75.0-131		07/12/2020 14:59	WG1507711
(S) 4-Bromofluorobenzene	103			67.0-138		07/12/2020 14:59	WG1507711
(S) 1,2-Dichloroethane-d4	98.8			70.0-130		07/12/2020 14:59	WG1507711



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.78		1.72	4.27	1	07/17/2020 16:09	WG1507584
C28-C40 Oil Range	13.8		0.293	4.27	1	07/17/2020 16:09	WG1507584
(S) o-Terphenyl	48.5			18.0-148		07/17/2020 16:09	WG1507584

Collected date/time: 07/08/20 14:30

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	99.6		1	07/14/2020 23:35	WG1508708



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	07/14/2020 01:04	WG1507969



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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	0.0251	J	0.0218	0.100	1	07/12/2020 01:43	WG1507601
(S) a,a,a-Trifluorotoluene(FID)	89.2			77.0-120		07/12/2020 01:43	WG1507601



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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		0.000469	0.00100	1	07/12/2020 15:19	WG1507711
Toluene	U		0.00130	0.00502	1	07/12/2020 15:19	WG1507711
Ethylbenzene	U		0.000740	0.00251	1	07/12/2020 15:19	WG1507711
Total Xylenes	U		0.000883	0.00652	1	07/12/2020 15:19	WG1507711
(S) Toluene-d8	105			75.0-131		07/12/2020 15:19	WG1507711
(S) 4-Bromofluorobenzene	98.1			67.0-138		07/12/2020 15:19	WG1507711
(S) 1,2-Dichloroethane-d4	97.3			70.0-130		07/12/2020 15:19	WG1507711



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.57	<u>J</u>	1.62	4.01	1	07/16/2020 13:28	WG1507584
C28-C40 Oil Range	23.9		0.275	4.01	1	07/16/2020 13:28	WG1507584
(S) o-Terphenyl	61.0			18.0-148		07/16/2020 13:28	WG1507584

Collected date/time: 07/08/20 15:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	85.8		1	07/14/2020 23:35	WG1508708



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		10.7	23.3	1	07/14/2020 01:22	WG1507969



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	0.0304	<u>J</u>	0.0253	0.117	1	07/12/2020 02:03	WG1507601
(S) a,a,a-Trifluorotoluene(FID)	86.2			77.0-120		07/12/2020 02:03	WG1507601



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000623	0.00133	1	07/12/2020 15:39	WG1507711
Toluene	U		0.00173	0.00667	1	07/12/2020 15:39	WG1507711
Ethylbenzene	U		0.000982	0.00333	1	07/12/2020 15:39	WG1507711
Total Xylenes	U		0.00117	0.00866	1	07/12/2020 15:39	WG1507711
(S) Toluene-d8	105			75.0-131		07/12/2020 15:39	WG1507711
(S) 4-Bromofluorobenzene	100			67.0-138		07/12/2020 15:39	WG1507711
(S) 1,2-Dichloroethane-d4	110			70.0-130		07/12/2020 15:39	WG1507711



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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.80	<u>J</u>	1.88	4.66	1	07/16/2020 14:01	WG1507584
C28-C40 Oil Range	14.7		0.320	4.66	1	07/16/2020 14:01	WG1507584
(S) o-Terphenvl	54.5			18.0-148		07/16/2020 14:01	WG1507584

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Collected date/time: 07/08/20 15:30

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	81.3		1	07/14/2020 23:35	WG1508708



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		11.3	24.6	1	07/14/2020 02:54	WG1507969



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		0.0267	0.123	1	07/12/2020 03:45	WG1507614
(S) a,a,a-Trifluorotoluene(FID)	97.9			77.0-120		07/12/2020 03:45	WG1507614



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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	
enzene	U		0.000682	0.00146	1	07/12/2020 15:59	WG1507711
luene	U		0.00190	0.00730	1	07/12/2020 15:59	WG1507711
ylbenzene	U		0.00108	0.00365	1	07/12/2020 15:59	WG1507711
al Xylenes	U		0.00129	0.00949	1	07/12/2020 15:59	WG1507711
) Toluene-d8	103			75.0-131		07/12/2020 15:59	WG1507711
) 4-Bromofluorobenzene	102			67.0-138		07/12/2020 15:59	WG1507711
5) 1,2-Dichloroethane-d4	110			70.0-130		07/12/2020 15:59	WG1507711

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	9.48		1.98	4.92	1	07/17/2020 00:20	WG1507584
C28-C40 Oil Range	49.5		0.337	4.92	1	07/17/2020 00:20	WG1507584
(S) o-Terphenyl	55.2			18.0-148		07/17/2020 00:20	WG1507584

Collected date/time: 07/08/20 16:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	99.2		1	07/14/2020 23:35	WG1508708



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.27	20.2	1	07/14/2020 03:13	WG1507969



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	07/12/2020 04:07	WG1507614
(S) a,a,a-Trifluorotoluene(FID)	97.8			77.0-120		07/12/2020 04:07	WG1507614



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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		0.000471	0.00101	1	07/12/2020 16:18	WG1507711
Toluene	U		0.00131	0.00504	1	07/12/2020 16:18	WG1507711
Ethylbenzene	U		0.000743	0.00252	1	07/12/2020 16:18	WG1507711
Total Xylenes	U		0.000887	0.00655	1	07/12/2020 16:18	WG1507711
(S) Toluene-d8	105			<i>75.0-131</i>		07/12/2020 16:18	WG1507711
(S) 4-Bromofluorobenzene	98.6			67.0-138		07/12/2020 16:18	WG1507711
(S) 1,2-Dichloroethane-d4	103			70.0-130		07/12/2020 16:18	WG1507711



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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.86	<u>J</u>	1.62	4.03	1	07/16/2020 12:19	WG1507584
C28-C40 Oil Range	9.44		0.276	4.03	1	07/16/2020 12:19	WG1507584
(S) o-Terphenyl	46.7			18.0-148		07/16/2020 12:19	WG1507584

ONE LAB. NAPage 203 of 425

Collected date/time: 07/08/20 16:30

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	99.7		1	07/14/2020 23:22	WG1508709



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.23	20.1	1	07/14/2020 03:31	WG1507969



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		0.0218	0.100	1	07/12/2020 04:29	WG1507614
(S) a,a,a-Trifluorotoluene(FID)	99.0			77.0-120		07/12/2020 04:29	WG1507614



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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		0.000468	0.00100	1	07/12/2020 16:38	WG1507711
Toluene	U		0.00130	0.00501	1	07/12/2020 16:38	WG1507711
Ethylbenzene	U		0.000739	0.00251	1	07/12/2020 16:38	WG1507711
Total Xylenes	U		0.000883	0.00652	1	07/12/2020 16:38	WG1507711
(S) Toluene-d8	105			<i>75.0-131</i>		07/12/2020 16:38	WG1507711
(S) 4-Bromofluorobenzene	101			67.0-138		07/12/2020 16:38	WG1507711
(S) 1,2-Dichloroethane-d4	108			70.0-130		07/12/2020 16:38	WG1507711



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	6.11		1.61	4.01	1	07/16/2020 23:39	WG1507584
C28-C40 Oil Range	33.6		0.275	4.01	1	07/16/2020 23:39	WG1507584
(S) o-Terphenyl	66.8			18.0-148		07/16/2020 23:39	WG1507584

ONE LAB. NAPage 204 of 25

Collected date/time: 07/08/20 17:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	87.5		1	07/14/2020 23:22	WG1508709



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		10.5	22.8	1	07/14/2020 03:50	WG1507969



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		0.0248	0.114	1	07/12/2020 04:52	WG1507614
(S) a,a,a-Trifluorotoluene(FID)	98.4			77.0-120		07/12/2020 04:52	<u>WG1507614</u>



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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		0.000601	0.00129	1	07/12/2020 16:58	WG1507711
Toluene	U		0.00167	0.00643	1	07/12/2020 16:58	WG1507711
Ethylbenzene	U		0.000948	0.00322	1	07/12/2020 16:58	WG1507711
Total Xylenes	U		0.00113	0.00836	1	07/12/2020 16:58	WG1507711
(S) Toluene-d8	106			75.0-131		07/12/2020 16:58	WG1507711
(S) 4-Bromofluorobenzene	101			67.0-138		07/12/2020 16:58	WG1507711
(S) 1,2-Dichloroethane-d4	106			70.0-130		07/12/2020 16:58	WG1507711



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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	5.65		1.84	4.57	1	07/16/2020 23:53	WG1507584
C28-C40 Oil Range	23.5		0.313	4.57	1	07/16/2020 23:53	WG1507584
(S) o-Terphenyl	47.7			18.0-148		07/16/2020 23:53	WG1507584

ONE LAB. NA Rage 205 of 25

Collected date/time: 07/08/20 17:30

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	99.6		1	07/14/2020 23:22	WG1508709



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	49.4		9.23	20.1	1	07/14/2020 04:08	WG1507969



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		0.0218	0.100	1	07/12/2020 05:14	WG1507614
(S) a,a,a-Trifluorotoluene(FID)	99.0			77.0-120		07/12/2020 05:14	WG1507614



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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		0.000469	0.00100	1	07/12/2020 17:18	WG1507711
Toluene	U		0.00130	0.00502	1	07/12/2020 17:18	WG1507711
Ethylbenzene	U		0.000740	0.00251	1	07/12/2020 17:18	WG1507711
Total Xylenes	U		0.000883	0.00652	1	07/12/2020 17:18	WG1507711
(S) Toluene-d8	106			<i>75.0-131</i>		07/12/2020 17:18	WG1507711
(S) 4-Bromofluorobenzene	101			67.0-138		07/12/2020 17:18	WG1507711
(S) 1,2-Dichloroethane-d4	97.7			70.0-130		07/12/2020 17:18	WG1507711



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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	21.6		1.62	4.01	1	07/17/2020 00:06	WG1507584
C28-C40 Oil Range	97.3		0.275	4.01	1	07/17/2020 00:06	WG1507584
(S) o-Terphenyl	59.0			18.0-148		07/17/2020 00:06	WG1507584

ONE LAB. NAPage 206 of 425

Collected date/time: 07/08/20 18:30

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	92.9		1	07/14/2020 23:22	WG1508709



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	07/14/2020 04:27	WG1507969



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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	07/12/2020 05:36	WG1507614
(S) a,a,a-Trifluorotoluene(FID)	98.6			77.0-120		07/12/2020 05:36	WG1507614



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000503	0.00108	1	07/12/2020 17:38	WG1507711
Toluene	U		0.00140	0.00538	1	07/12/2020 17:38	WG1507711
Ethylbenzene	U		0.000793	0.00269	1	07/12/2020 17:38	WG1507711
Total Xylenes	U		0.000947	0.00700	1	07/12/2020 17:38	WG1507711
(S) Toluene-d8	106			75.0-131		07/12/2020 17:38	WG1507711
(S) 4-Bromofluorobenzene	99.1			67.0-138		07/12/2020 17:38	WG1507711
(S) 1,2-Dichloroethane-d4	103			70.0-130		07/12/2020 17:38	WG1507711



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	10.1		1.73	4.31	1	07/16/2020 22:31	WG1507584
C28-C40 Oil Range	36.3		0.295	4.31	1	07/16/2020 22:31	WG1507584
(S) o-Terphenyl	61.7			18.0-148		07/16/2020 22:31	WG1507584

ONE LAB. NAPage 207 of 25

Collected date/time: 07/08/20 19:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	99.1		1	07/14/2020 23:22	WG1508709

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	13.1	<u>J</u>	9.29	20.2	1	07/14/2020 04:45	WG1507969



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	07/12/2020 05:58	WG1507614
(S) a,a,a-Trifluorotoluene(FID)	98.5			77.0-120		07/12/2020 05:58	WG1507614



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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		0.000471	0.00101	1	07/12/2020 17:58	WG1507711
Toluene	U		0.00131	0.00505	1	07/12/2020 17:58	WG1507711
Ethylbenzene	U		0.000744	0.00252	1	07/12/2020 17:58	WG1507711
Total Xylenes	U		0.000888	0.00656	1	07/12/2020 17:58	WG1507711
(S) Toluene-d8	107			75.0-131		07/12/2020 17:58	WG1507711
(S) 4-Bromofluorobenzene	98.9			67.0-138		07/12/2020 17:58	WG1507711
(S) 1,2-Dichloroethane-d4	97.5			70.0-130		07/12/2020 17:58	WG1507711



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	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		1.63	4.04	1	07/16/2020 14:14	WG1507584
C28-C40 Oil Range	28.2		0.277	4.04	1	07/16/2020 14:14	WG1507584
(S) o-Terphenyl	51.8			18.0-148		07/16/2020 14:14	WG1507584

SAMPLE RESULTS - 15 L1238345

ONE LAB. NAPage 208 of 425

Collected date/time: 07/08/20 19:30

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	99.3		1	07/14/2020 23:22	WG1508709



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	16.6	<u>J</u>	9.27	20.1	1	07/14/2020 05:03	WG1507969



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	07/12/2020 06:21	WG1507614
(S) a,a,a-Trifluorotoluene(FID)	98.2			77.0-120		07/12/2020 06:21	WG1507614



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000470	0.00101	1	07/12/2020 18:18	WG1507711
Toluene	U		0.00131	0.00504	1	07/12/2020 18:18	WG1507711
Ethylbenzene	U		0.000742	0.00252	1	07/12/2020 18:18	WG1507711
Total Xylenes	U		0.000886	0.00655	1	07/12/2020 18:18	WG1507711
(S) Toluene-d8	104			75.0-131		07/12/2020 18:18	WG1507711
(S) 4-Bromofluorobenzene	101			67.0-138		07/12/2020 18:18	WG1507711
(S) 1,2-Dichloroethane-d4	108			70.0-130		07/12/2020 18:18	WG1507711



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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	7.36		1.62	4.03	1	07/16/2020 22:45	WG1507584
C28-C40 Oil Range	40.1		0.276	4.03	1	07/16/2020 22:45	WG1507584
(S) o-Terphenyl	48.2			18.0-148		07/16/2020 22:45	WG1507584

ONE LAB. NAPage 209 of \$25

Collected date/time: 07/08/20 20:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	97.7		1	07/14/2020 23:22	WG1508709



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	53.9		9.42	20.5	1	07/14/2020 05:22	WG1507969



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		0.0222	0.102	1	07/12/2020 06:43	WG1507614
(S) a,a,a-Trifluorotoluene(FID)	99.2			77.0-120		07/12/2020 06:43	WG1507614



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

	'	′ .	<u>′</u>				
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	0.000717	<u>J</u>	0.000478	0.00102	1	07/14/2020 13:17	WG1507972
Toluene	0.00141	<u>J</u>	0.00133	0.00512	1	07/14/2020 13:17	WG1507972
Ethylbenzene	U		0.000755	0.00256	1	07/14/2020 13:17	WG1507972
Total Xylenes	0.00102	<u>J</u>	0.000901	0.00665	1	07/14/2020 13:17	WG1507972
(S) Toluene-d8	103			75.0-131		07/14/2020 13:17	WG1507972
(S) 4-Bromofluorobenzene	94.9			67.0-138		07/14/2020 13:17	WG1507972
(S) 1,2-Dichloroethane-d4	94.2			70.0-130		07/14/2020 13:17	WG1507972



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	7.58		1.65	4.10	1	07/16/2020 22:58	WG1507584
C28-C40 Oil Range	37.6		0.281	4.10	1	07/16/2020 22:58	WG1507584
(S) o-Terphenyl	60.3			18.0-148		07/16/2020 22:58	WG1507584

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Total Solids by Method 2540 G-2011

L1238345-01,02,03,04,05,06,07,08

Method Blank (MB)

(MB) R3549748-1	07/14/20 23:35			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

Ss

L1238345-01 Original Sample (OS) • Duplicate (DUP)

- ('O.SI	H 1238345-01	07/14/20 23:35 •	(DUP) R3549748-3	07/14/20 23:35

, ,	Original Resul	t DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	93.4	93.4	1	0.00139		10





Laboratory Control Sample (LCS)

(LCS)	R3549748-2	07/14/20 23:35

(LCS) R3549748-2 07/14/		LCC Decult	LCC Doo	Dan Liurita	LCC Ovalities
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	





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Total Solids by Method 2540 G-2011

L1238345-09,10,11,13,14,15,16

Method Blank (MB)

(MB) R3549745-1 C	07/14/20 23:22			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

Ss

L1238345-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1238345-13	07/14/20 23:22 •	(DUP) R3549745-3	07/14/20 23:22
(,		(= /	

(00) 2.2000 10 10 0771 1/2	Original Result			DUP RPD	DUP Qualifier	DUP RPD Limits
/te	%	%		%		%
tal Solids	92.9	93.2	2 1	0.341		10

[†]Cn

Laboratory Control Sample (LCS)

(LCS) R3549745-2 07/14/2	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	





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Wet Chemistry by Method 300.0

L1238345-01,02,03,04,05,06,07,08,09,10,11,13,14,15,16

Method Blank (MB)

(1.45)	205 40460 4 07/40/04	0.00.00			
(MB) F	R3549168-1 07/13/20	0 22:36			
		MB Result	MB Qualifier	MB MDL	MB RDL
Analyt	е	mg/kg		mg/kg	mg/kg
Chloric	de	U		9.20	20.0





L1238345-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1238345-04 07/14/2	0 00:27 • (DUP) R3549168-3	07/14/20	00:45			
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	
Analyte	mg/kg	mg/kg		%		%	
Chloride	П	11	1	0.000		20	





L1238345-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1238345-16 07/14/20 05:22 • (DUP) R3549168-6 07/14/20 06:17

(03) [1230343-10 07/14/20	Original Result (dry)		Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	53.9	54.0	1	0.178		20





Laboratory Control Sample (LCS)

(LCS) R3549168-2 07/13/20 22:55

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

L1238345-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1238345-06 07/14/20 01:22 • (MS) R3549168-4 07/14/20 01:41 • (MSD) R3549168-5 07/14/20 02:36

(03) [1230343-00 07/1	#/20 01.22 ° (IVIS	113545100-4 0	77/14/20 01.41	(10130) 133731	00-3 0//14/20	02.50						
	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	583	U	591	596	101	102	1	80.0-120			0.871	20

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QUALITY CONTROL SUMMARY

ONE LAB. NAPage 213 of \$25

L1238345-01,02,03,04,05,06 Volatile Organic Compounds (GC) by Method 8015D/GRO

Method Blank (MB)

MB) R3550217-2 07/11/2	20 23:40				
	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)	92.6			77.0-120	



(LCS) R3550217-1 07/11/20	0 22:58				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	5.48	99.6	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			108	77.0-120	















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QUALITY CONTROL SUMMARY

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

L1238345-07,08,09,10,11,13,14,15,16

Method Blank (MB)

(MB) R3550799-3 07/12/	/20 03:23				
	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)	99.8			77.0-120	

Laboratory Control Sample (LCS)

(LCS) R3550799-2 07/12/	/20 02:14				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	4.71	85.6	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			101	77.0-120	









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QUALITY CONTROL SUMMARY

ONE LAB. NA Page 215 of \$25 L1238345-01,02,03,04,05,06,07,08,09,10,11,13,14,15

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

Method Blank (MB)

(S) Toluene-d8

(S) 4-Bromofluorobenzene

(S) 1,2-Dichloroethane-d4

(MB) R3549987-2 07/12/	20 12:46				
	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	103			75.0-131	
(S) 4-Bromofluorobenzene	101			67.0-138	
(S) 1,2-Dichloroethane-d4	105			70.0-130	

Laboratory Control Sample (LCS)

103

102

105

75.0-131

67.0-138

70.0-130

(LCS) R3549987-1 07	/12/20 11:46				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Benzene	0.125	0.113	90.4	70.0-123	
Ethylbenzene	0.125	0.134	107	74.0-126	
Toluene	0.125	0.106	84.8	75.0-121	
Xylenes, Total	0.375	0.347	92.5	72.0-127	















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

L1238345-16

Method Blank (MB)

(MB) R3550795-2 07/14/2	20 10:15					
	MB Result	MB Qualifier	MB MDL	MB RDL		
Analyte	mg/kg		mg/kg	mg/kg		
nzene	U		0.000467	0.00100		
nylbenzene	U		0.000737	0.00250		
oluene	U		0.00130	0.00500		
enes, Total	U		0.000880	0.00650		
Toluene-d8	102			75.0-131		
S) 4-Bromofluorobenzene	97.2			67.0-138		
(S) 1,2-Dichloroethane-d4	91.0			70.0-130		

Laboratory Control Sample (LCS)

(LCS) R3550795-1 07/14/20 09:18										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier					
Analyte	mg/kg	mg/kg	%	%						
Benzene	0.125	0.122	97.6	70.0-123						
Ethylbenzene	0.125	0.118	94.4	74.0-126						
Toluene	0.125	0.116	92.8	75.0-121						
Xylenes, Total	0.375	0.382	102	72.0-127						
(S) Toluene-d8			94.7	75.0-131						
(S) 4-Bromofluorobenzene			103	67.0-138						
(S) 1 2-Dichloroethane-d4			101	70 0-130						

L1238436-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1238436-03 07/14/20 16:46 • (MS) R3550795-3 07/14/20 19:36 • (MSD) R3550795-4 07/14/20 19:55												
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg				%	%		%			%	%
Benzene	0.125	0.00130	0.187	0.183	96.9	94.5	1	10.0-149			2.49	37
Ethylbenzene	0.125	U	0.181	0.175	94.4	91.2	1	10.0-160			3.45	38
Toluene	0.125	U	0.193	0.189	101	98.4	1	10.0-156			2.41	38
Xylenes, Total	0.375	U	0.560	0.430	97.3	74.7	1	10.0-160			26.4	38
(S) Toluene-d8					99.2	99.3		75.0-131				
(S) 4-Bromofluorobenzene					93.9	93.4		67.0-138				
(S) 1,2-Dichloroethane-d4					101	102		70.0-130				

















QUALITY CONTROL SUMMARY

L1238345-01,02,03,04,05,06,07,08,09,10,11,13,14,15,16

Semi-Volatile Organic Compounds (GC) by Method 8015

Method Blank (MB)

(MB) R3550539-1 07/16	/20 10:51			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	0.442	<u>J</u>	0.274	4.00
(S) o-Terphenyl	49.4			18.0-148

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Laboratory Control Sample (LCS)

(LCS) R3550539-2 07/16	/20 11:06				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	33.0	66.0	50.0-150	
(S) o-Terphenyl			82.3	18.0-148	





L1238345-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1238345-03 07/16/20 11:19 • (MS) R3550539-3 07/16/20 11:34 • (MSD) R3550539-4 07/16/20 11:52

(03) 21230343 03 07/1	, ,	Original 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	59.0	U	32.9	39.2	55.8	66.3	1	50.0-150			17.4	20	
(S) o-Terphenvl					59.2	116		18.0-148					







Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

Appleviations 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.

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













Qc









Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660
Alaska	17-026
Arizona	AZ0612
Arkansas	88-0469
California	2932
Colorado	TN00003
Connecticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia ¹	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
lowa	364
Kansas	E-10277
Kentucky ^{1 6}	90010
Kentucky ²	16
Louisiana	Al30792
Louisiana ¹	LA180010
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086

Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey-NELAP	TN002
New Mexico ¹	n/a
New York	11742
North Carolina	Env375
North Carolina ¹	DW21704
North Carolina ³	41
North Dakota	R-140
Ohio-VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	LAO00356
South Carolina	84004
South Dakota	n/a
Tennessee 1 4	2006
Texas	T104704245-18-15
Texas ⁵	LAB0152
Utah	TN00003
Vermont	VT2006
Virginia	460132
Washington	C847
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

Third Party Federal Accreditations

A2LA – ISO 17025	1461.01
A2LA – ISO 17025 ⁵	1461.02
Canada	1461.01
EPA-Crypto	TN00003

AIHA-LAP,LLC EMLAP	100789
DOD	1461.01
USDA	P330-15-00234

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

Our Locations

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



















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Sample ID	Comp/Gra	Matrix *	Depth	Date	2	Time	Cntrs	СНГО	GRO,	TPH-I							-		Sample # (lab only)
AH-15	Grah	SS	0-11	718	120	12:00	1	X	X	X					20				-9/
AH-15	1	SS	2'-3'	1		12:30	1	1	1	1							-		202
AH-15 AH- 5 5	4-1	SS	0-1"	0 2		13:34						100	100						- 93
AH-55	NEW O	SS	2:31	147	E	14:00	-			14			1 3		1				- 04
AH-7W		SS	01-1	135	1.3%	14:36			1			100						200	-05
AH-7W	100	SS	21-3			15:00												-	106
AH-7E		SS	0'-1"		1	15:30		100		181		3		19					,07
AH-7E		SS	21-3		241	16:00	10.1		6			15	1						18
AH-11W	-	SS	0'-1'	70000		16:30	14	1	12			100					859	1	-09
	1	SS	71-3	- 0	1	17:00	V	V	V	V	1							30	-19
Matrix: S - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	Remarks: RE	D COOLE	16	F 30		7 1.00					pH		TemOthe	, all		COC Seal COC Sign Bottles Correct	Present/ ped/Accura arrive in bottles u	Intact: te: tact: sed:	NP N N N N N N N N N N N N N N N N N N
DW - Drinking Water DT - Other	Samples return UPS Fee	ned via: dExCourie	r	_	Trackin			16	59	510	20)				VOA Zero		plicable e:	CY W
Relinquished by : (Signature)	hole and	Date:	Time	4	Receive	d by: (Signa	ture)	0.10	00	0	Inp Bla	ink Kec	elved: Y	HCL/ Mea	н	RAD Scre	en <0.5 m	R/hr:	A-N
Relinquished by : (Signature)		7/9/2 Date:	O 18).'36 le:	Receive	ad by: (Signa	ture)	N	MX	-	Temp:	姐	°C Bot	TBR ties Receive		If preserv	ation require	ed by Login	: Date/Time
Relinquished by : (Signature)		Date:	Tim	e:	Receive	ed for lab by	(algna	ture)			Date:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Tim	1		Hold:			Condition:

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	of 42	
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			Billing Infor	rmation:					Ar	nalvsis / C	ontainer	/ Preserva	ative		Chain	of Custody	Page Zof Z
ConocoPhillips - Tetra 901 West Wall Suite 100	Tech		Accounts 901 Wes Suite 100	s Payable t Wall		Pres Chk		1							-/-	Pace.	Analytical * anter for Teeting & Innovellan
Midland TX 79701 Report to:		1	Email To: cl	hristian.llull@tel	tratech.com	-										Lebanon Rd	回線数回
Christian Llull			- 9		- 37			1							Phone	t Juliet, TN 37 : 615-758-58 : 800-767-58	8 22-1441-2
roject Description: COP MCA 2-C Header Release		City/State Collected:	Hobbs	NM	Please C	rsle:	1	vs.								15-758-5859	
Phone: 512-338-1667	Client Project 212C-MD-			Lab Project # COPTETRA-	212CMD021	119	oPres	4ozClr-NoPres	4ozClr-NoPres						SDG	A	138345
ollected by (print): JOHN MYLER	Site/Facility LEA COUN	ITY, NEW N	MEXICO	P.O.#		1	ZCIr-N	102Clr	zCir-N	.0			150		Acct	num: COI	
Collected by (signature): Imprediately Packed on Ice N Y	Same	ay 5 Da	Day	Quote # Date Resu SHANDA/d	ilts Needed	No.	CHLORIDE-300 4ozClr-NoPres	GRO,V8260BTEX 4	TPH-DRO/ORO 40	y=7)					Preid PM:	olate: T17 ogin: P78 526 - Chris	4175
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	CHLO	GRO,	TPH-[Remarks	Sample # (lab only)
AH-9W	Grab	SS	0-11	7/8/20	17:30	1	X	X	X	-					- 1	0.0	-11
AH-9W	1	SS	21.31	1	18:00	1	1	1	1			1		100		7.3	-12
AH-9N	457	SS	01-11		18:30					100		- 1			1 1/-	270	13
AH-9N		SS	21-31		19:00											THE	-14
AH-8W		SS	01-1	THE IS	19/30							4	1		(BC) (-15
AH-8W	V	SS	21-37	V	20:00	1	1	1	1				No.				- Uc
Trip-Blank-1	_	SS	-	-	-	V							1				17
		SS	1				-			- 1		-		-		-	
The same		SS		1900	3			-						1		C 12	
	1	SS		400	- OF			1							0.00		
Matrix: S - Soil AIR - Air F - Filter S - Groundwater B - Bioassay W - WasteWater	Remarks: R	ED-COOL	ER		1	4	4	a de		pH _ Flow_		Temp		COC Se COC Si Bottle	Sample Re al Present gned/Accur s arrive i t bottles	/Intact ate: ntact:	ecklist NP N N N N N
OW - Drinking Water OT - Other	Samples returneUPSFedE			Trac	king#									VOA Ze	ro Headspa	Applicab ce:	Le Ky K
Relinquished by : (Signature)	2	7/9/	Time	: Rece	lived by: (Signa	ture)	00	rea		rip Blank	Receive	HCL/	NeoH		vation Cor reen <0.5		ecked! Y N
Relinquished by : (Signature)		Date:	Time		eived by: (Signa	rure)		-Cu	1	remp: 1/	A.C.	Bottles R	ceived:	If prese	rvation requ	red by Lo	gin: Date/Time
Relinquished by : (Signature)	(Date:	Time	e: Rece	eived for lab by	: (Signal	dre)		9	7 -/	8.75	Time:	138	Hold:			NCF / ON

Troy Dunlap



A Date: 7/10/20 Evaluated by: Troy	45 Client: COPTETR.
------------------------------------	---------------------

Non-Conformance (check applicable items)

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

Login Comments: Sample AH-9W 2-3FT received empty.

Client informed by:	Call	Email	Voice Mail	Date: 7/13/20	14:01	
TSR Initials: CM	Client Cont	act				

Login Instructions:

Client notified.

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23 of 42	ag
f 42	13
	f 42

			Billing Info	rmation:		- 4		3		A	nalvsis /	Contai	ner / Prese	rvative	_	Chain	of Custody	Page of 2
ConocoPhillips - Tetra 01 West Wall uite 100 Aidland TX 79701	a Tech		901 Wes Suite 100		ı	-	Pres Chk		180		per .					-/-	Pace A Nettonal Can	nalytical* But for Teating & Innovation
eport to: Christian Llull			Email To: c	hristian,llull	@tetrat	ech.com				1						Mount	Lebanon Rd Juliet, TN 371 615-758-5858	
roject Description: COP MCA 2-C Header Release		City/State Collected:	Hobbs.	NM	-	Please CI PT MT C	rele:	1	S			000				Phone:	800-767-5859 5-758-5859	
one: 512-338-1667	212C-MI			COPTETI		2CMD021	19	oPres	NoPre	oPres							D13	5
ected by (print): John MILER	Site/Facilit	y ID # INTY, NEW N	MEXICO	P.O. #	1	7		ZCIr-N	lozClr-	4ozCir-NoPres				8		Acctn	LI23	9345 ETRA
ected by (signature):	Same	(Lab MUST Be Day Five Day 5 Da Day 10 D	Day	Quote #	Results	Needed	No.	CHLORIDE-300 402Clr-NoPres	GRO,V8260BTEX 4ozClr-NoPres							Prelog PM: 5	in: P784 26 - Chris	175 McCord
sample ID	Three	Day 5 Day 10 D Day 10 D Day Bb Matrix *	Depth	Date	1,10	Rush	of Cntrs	CHLORIC	SRO,V8	TPH-DRO/ORO						Shippi		Sample # (lab only)
AH-15-2	Grah	SS	0-11	718	120	12:00	1	X	X	X								-91
AH-15-2	1	SS	2'-3'	1		12:30	1	1	1	1								202
AH-555-2	11/2	SS	0-1"	112		13:34						10	- 3				-	- 93
AH-55-2	(FINE	SS	2:31	147	E	14:00	1			4	17.3		5				-	- 04
AH-7W-2	1000	SS	01-1	100	27	14:30			4			1		175			200	-05
AH-7W-2	100	SS	21-3			15:00												100
AH-7E-2		SS	0'-1"			15:30						3	1					,07
AH-7E-2	- 1	SS	21-31	-	66.4	16:00			5				- 10					18
AH-11W-2	T at	SS	0'-1'	100		16:30	11			17/4		No. of	1			- 8 50		209
AH-11W-2	V	SS	71-3	0	/	17:00	V	V	V	W			1			-	200	-10
atrix: Soil AIR - Air F - Filter - Groundwater B - Bioassay - WasteWater	Remarks: RE1	COOLE	R							1	pH Flow		TempOther		COC Sea COC Sig Bottles	Sample Record 1 Present/ ned/Addura arrive in bottles u	Intact: te: tact:	NP N N
- Drinking Water Other	Samples returnUPSFed	ed via: ExCourier	TIT	-	Tracking	#45	10	163	59	510	26				VOA Zer	ent volume If Ap o Headspac	sent: plicable e:	Z N
nquished by : (Signature)	of and	7/9/20	Time 10.	130	Received	by: (Signat		cie	ask			Receiv	ed: Yes W	MeoH		een <0.5 m		ked: YN
nquished by (Signature)		Date:	Time		Received	d by: (Signat	ure)		-0	7	emp: 19	130	Bottles F	eceived:	If preserv	ation require	d by Login	: Date/Time
inquished by : (Signature)		Date:	Time	-	Received	d for lab by:	(Signat	ure)	-	1	Date:	b	Time:	30	Hold:	TA T		Condition:

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			Billing Infor	rmation:					Ar	nalvsis / C	ontainer	/ Preserva	ative		Chain	of Custody	Page Zof Z
ConocoPhillips - Tetra 901 West Wall Suite 100	Tech		Accounts 901 Wes Suite 100	s Payable t Wall		Pres Chk		1							-/-	Pace. National Co.	Analytical* enter for Teeting & Innovellan
Midland TX 79701		1	Email To: cl	hristian.llull@tel	ratech.com											Lebanon Rd	
Christian Llull			19		- 5			1							Phone	t Juliet, TN 37 r: 615-758-58	58 22-1-9-1-7
roject Description: COP MCA 2-C Header Release		City/State Collected:	Hobbs	NM	Please C	rcle:	1	vs.								e: 800-767-58 15-758-5859	
hone: 512-338-1667	Client Project 212C-MD-		- 6.4	Lab Project # COPTETRA-	212CMD021	119	oPres	4ozClr-NoPres	4ozClr-NoPres						SDG	A	138345
ollected by (print): JOHN MYLER	Site/Facility LEA COUN	ITY, NEW N	MEXICO	P.O.#	7	1	ZCIr-N	102Clr	zCir-N	6.0			15		Acct	num: COI	
morediately Packed on Ice N Y	Same	ay 5 Da	Day	Quote # Date Resu SHANDA/d	ilts Needed	No. of	CHLORIDE-300 4ozCir-NoPres	GRO,V8260BTEX 4	TPH-DRO/ORO 40	y = Fi					Preli PM: PB:	plate:T17 ogin: P78 526 - Chris	4175
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	СНГО	GRO,	TPH-I						Ship	Remarks	Sample # (lab only)
AH-9W-2	Grab	SS	0-11	7/8/20	17:30	1	X	X	X	- 4					- 1	0.0	-11
AH-9W-2	1	SS	21.31	1	18:00	1	1	1	1					100		7.38	-12
AH-9N	100	SS	01-11		18:30										1	270	13
AH-9N		SS	21-31	T. F	19:00								300				-14
AH-8W-2		SS	01-1	TEN	19/30	3 1						1					-(5
AH-8W-2	V	SS	Z1-31	V	20:00		1	1	V				1				416
Trip-Blank-1	-	SS	-	-	-	V	100						1				1
1 Produce		SS					4127		1			-				-	
The second		SS	12	1900	1	1		-						(5.0)		10.0	
		SS	46.	3-1	- 100	7	(FEE	10							- 199		
Matrix: S - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay VW - WasteWater	Remarks:	ED - (00)	ER				4	L		pH _ Flow _		Temp	-	COC Second South Bottle	Sample Re al Present gned/Accu s arrive t bottles	t/Intact rate: intact: used:	NP X N
W - Drinking Water T - Other	Samples returneUPSFedE			Trac	king#									VOA Ze	co Headsp	Applicab ace:	Le Ky X
Relinquished by : (Signature)		7/9/	Time	: Rece	lived by: (Signa	ture)	00	rea		rip Blank	Receive	HCL/	NeoH		vation Co reen <0.5		acked! Y N
Relinquished by : (Signature)		Date:	Time		eived by: (Signa	vure)		Cu	1	remp://	AC.	Bottles R	ceived:	If prese	rvation requ	ired by Lo	gin: Date/Time
Relinquished by : (Signature)	0	Date:	Time	e: Rece	lived for lab by	: (Signal	dre)			7 -/	8.x	Time:	75%	Hold:			NCF / OF

Chris McCord

From: Dickerson, Ryan < Ryan. Dickerson @tetratech.com >

Sent: Tuesday, July 21, 2020 1:37 PM

ö Chris McCord

Subject: L1238345 COC Revision Llull, Christian

Attachments: COC edits_L1238345.pdf

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

samples from the site with those sample IDs and need to distinguish the latest samples. Can you revise the L1238345 Report to match the attached revised COC? Add "-2" to all samples except AH-9N. We have

Thanks,

Ryan Dickerson | Senior Staff Geologist Direct +1 (512) 338-2889 | Main +1 (512) 338-1667 | Cell +1 (512) 217-7254 | <u>ryan.dickerson@tetratech.com</u>

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4 Ξ' Please consider the environment before printing. Read more

TETRA TECH

APPENDIX D Laboratory Analytical Data

Part 2
Shallow and Deep Soil Assessments
nAPP2117456525



February 18, 2022

CHRISTIAN LLULL
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: MCA 2C HEADER EAST 2 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/15/22 13:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/15/2022 Sampling Date: 02/15/2022

Reported: 02/18/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes)
Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

Analyzed By: MS/

Project Location: COP - LEA CO NM

mg/kg

Sample ID: AH - 1 (0-1') (H220575-01)

BTEX 8021B

BIEX GOEED	9/	119	Anaryzo	a 2 y . 1 . 2 /					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	207	104	200	3.95	
DRO >C10-C28*	<10.0	10.0	02/16/2022	ND	210	105	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	73.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	77.4	% 59.5-14	2						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/15/2022 Sampling Date: 02/15/2022

Reported: 02/18/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: AH - 1 (2'-3') (H220575-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	207	104	200	3.95	
DRO >C10-C28*	<10.0	10.0	02/16/2022	ND	210	105	200	2.20	
EXT DRO >C28-C36	14.3	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	90.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	95.5	% 59.5-14	2						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/15/2022 Sampling Date: 02/15/2022

Reported: 02/18/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

Applyzod By: MC/

Project Location: COP - LEA CO NM

Sample ID: AH - 2 (0-1') (H220575-03)

RTFY 8021R

Result	Reporting Limit	Analyzed	Method Blank					
< 0.050		,	Mediod blank	BS	% Recovery	True Value QC	RPD	Qualifier
-0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
<0.300	0.300	02/16/2022	ND					
103 9	% 69.9-14	0						
mg/	/kg	Analyzed By: AC						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
80.0	16.0	02/16/2022	ND	416	104	400	7.41	
mg/	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
<10.0	10.0	02/16/2022	ND	232	116	200	0.891	
<10.0	10.0	02/16/2022	ND					
86.4	% 66.9-13	6						
90.1	% 59.5-14	2						
-	<0.050 <0.150 <0.300 103 9 mg/ Result 80.0 mg/ Result <10.0 <10.0 <86.4	<0.050 0.050 <0.050 0.050 <0.150 0.150 <0.300 0.300 103	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/15/2022 Sampling Date: 02/15/2022

Reported: 02/18/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: AH - 2 (2'-3') (H220575-04)

BTEX 8021B	mg	/kg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
DRO >C10-C28*	<10.0	10.0	02/16/2022	ND	232	116	200	0.891	
EXT DRO >C28-C36	<10.0	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	95.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	102	% 59.5-14	2						

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Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 02/15/2022 Sampling Date: 02/15/2022

Reported: 02/18/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes) Sample Received By: Tamara Oldaker Project Number: 212C - MD - 02119

Project Location: COP - LEA CO NM

Sample ID: AH - 3 (0-1') (H220575-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
DRO >C10-C28*	14.6	10.0	02/16/2022	ND	232	116	200	0.891	
EXT DRO >C28-C36	<10.0	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	93.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	98.9	% 59.5-14	2						

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Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/15/2022 Sampling Date: 02/15/2022

Reported: 02/18/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: AH - 3 (2'-3') (H220575-06)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
DRO >C10-C28*	<10.0	10.0	02/16/2022	ND	232	116	200	0.891	
EXT DRO >C28-C36	<10.0	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	92.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	97.7	% 59.5-14	2						

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Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/15/2022 Sampling Date: 02/15/2022

Reported: 02/18/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

Analyzed By: MS/

Project Location: COP - LEA CO NM

Sample ID: AH - 4 (0-1') (H220575-07)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	a by. 1-15/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
DRO >C10-C28*	<10.0	10.0	02/16/2022	ND	232	116	200	0.891	
EXT DRO >C28-C36	<10.0	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	89.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	93.3	% 59.5-14	2						

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Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/15/2022 Sampling Date: 02/15/2022

Reported: 02/18/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: AH - 4 (2'-3') (H220575-08)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
DRO >C10-C28*	<10.0	10.0	02/16/2022	ND	232	116	200	0.891	
EXT DRO >C28-C36	<10.0	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	80.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	83.4	% 59.5-14	2						

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Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/15/2022 Sampling Date: 02/15/2022

Reported: 02/18/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

Applyzod By: MC/

Project Location: COP - LEA CO NM

Sample ID: AH - 5 (0-1') (H220575-09)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
DRO >C10-C28*	<10.0	10.0	02/16/2022	ND	232	116	200	0.891	
EXT DRO >C28-C36	<10.0	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	93.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	97.4	% 59.5-14	2						

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Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 02/15/2022 Sampling Date: 02/15/2022

Reported: 02/18/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes) Tamara Oldaker Project Number: 212C - MD - 02119 Sample Received By:

Project Location: COP - LEA CO NM

Sample ID: AH - 5 (2'-3') (H220575-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
DRO >C10-C28*	<10.0	10.0	02/16/2022	ND	232	116	200	0.891	
EXT DRO >C28-C36	<10.0	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	97.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	104 9	6 59.5-14	2						

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Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/15/2022 Sampling Date: 02/15/2022

Reported: 02/18/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: AH - 6 (0-1') (H220575-11)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	< 0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
DRO >C10-C28*	<10.0	10.0	02/16/2022	ND	232	116	200	0.891	
EXT DRO >C28-C36	<10.0	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	98.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	104	% 59.5-14	22						

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Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/15/2022 Sampling Date: 02/15/2022

Reported: 02/18/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: AH - 6 (2'-3') (H220575-12)

BTEX 8021B	mg	/kg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
DRO >C10-C28*	<10.0	10.0	02/16/2022	ND	232	116	200	0.891	
EXT DRO >C28-C36	<10.0	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	95.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	101	% 59.5-14	2						

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Celey & Keine



Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/15/2022 Sampling Date: 02/15/2022

Reported: 02/18/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: AH - 7 (0-1') (H220575-13)

BTEX 8021B	mg,	'kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
DRO >C10-C28*	<10.0	10.0	02/16/2022	ND	232	116	200	0.891	
EXT DRO >C28-C36	<10.0	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	92.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	96.7	% 59.5-14	2						

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Celey D. Keine



Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/15/2022 Sampling Date: 02/15/2022

Reported: 02/18/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: AH - 7 (2'-3') (H220575-14)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
DRO >C10-C28*	<10.0	10.0	02/16/2022	ND	232	116	200	0.891	
EXT DRO >C28-C36	<10.0	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	92.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	97.0	% 59.5-14	2						

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Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 02/15/2022 Sampling Date: 02/15/2022

Reported: 02/18/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes) Tamara Oldaker Project Number: 212C - MD - 02119 Sample Received By:

Project Location: COP - LEA CO NM

Sample ID: AH - 8 (0-1') (H220575-15)

BTEX 8021B	mg/	kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
DRO >C10-C28*	188	10.0	02/16/2022	ND	232	116	200	0.891	
EXT DRO >C28-C36	101	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	86.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	103 9	% 59.5-14	2						

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Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 02/15/2022 Sampling Date: 02/15/2022

Reported: 02/18/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes) Tamara Oldaker Project Number: 212C - MD - 02119 Sample Received By:

Project Location: COP - LEA CO NM

Sample ID: AH -8 (2'-3') (H220575-16)

BTEX 8021B	mg/	kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
DRO >C10-C28*	<10.0	10.0	02/16/2022	ND	232	116	200	0.891	
EXT DRO >C28-C36	<10.0	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	92.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	98.6	% 59.5-14	2						

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Corrected Temp. °C

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



The state of the s		
Project Manager: Charles	2 land P.O. #:	
Address: Christing Llan	Ote transections Company: Total Tech	
City:		
Phone #:	3	
Project #: 2/21-Mp-02/19	Project Owner: City:	
2	Header East "2" Release State: Zip:	
Project Location: Les County	NM	
Sampler Name: Coltan 151	Riverself Fax #:	
FOR LAB USE ONLY	MATRIX PRESERV SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMI # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TPH BTEX Chlorides
7	~ ×	X
4 44-2 (2-7)		
5 AH-3 (D-1) 6 AH-4 (D-1) 7 AH-4 (D-1)		
PLEASE NOTE: Liability and Damages. Cardina's liability and cl	d client's exclusive remady for any claim arising whether based in contract or tort shall be limited to the removal of the state of the	*
amalyses. All claims including those for regilgence and any of service. In no event shall Cardinal be liable for incidental or co- affiliates or successors aming out of or related to the performa Relinquished By:	cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after oquanial damages, including without mitation, business interruptions, loss of use, or loss of podts incurred by class of services hereunder by Cardinal within regardless of whether such claim is besed upon any of the above stated reas Date: Received By:	pplicable
Colyn Stokensk	Time: Time: Time: Received By:	All Results are emailed. Please provide Email address: (A) Then, Link Ottharks.
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 228 Sample Condition CHECKED BY: Tur Cool Intact (Initials) Corrected Temp. °C 22, 3 The	Turnaround Time: Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C Thermometer ID #113 □ Yes □ Yes

Page 19 of 20

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



01 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

	-24/0			
ちょうしたりん	anoca PLIMIES	BILL TO	ANALYSIS REQUEST	
anager: Chatthen Lho	P.O. #:			
Address: Christian, LINN Otetratech. Com	h. Company:	vitebra Tech		
City: State:	Zip: Attn: C	100		
Phone #: Fax #:	Address:	by even		
Project #: 2/26-MO-02/19 Project Owner:	ner: City:			
Project Name: MA 22 Header East	"2" Release	Zip:		
7				
Coltan Bak	Fax #:			
FOR LAB USE ONLY	MATRIX	RV. SAMPLING	es	
Lab I.D. Sample I.D.	(G)RAB OR (C)O # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: CE / COOL	DATE TIME	BTEX	
11 AN-6 (0+1)	- X	2/10/22	X	
AH-7 (
16 AH-7 (2-3')	<	<	*	
Damages. Cardinal's liability and clie those for negligence and any other clients for incidental or consecution to for related to the performance out of or related to the performance.	any claim asising whether based in contract or tort, shall be lim element wished unless made in writing and received by Cartif or different similation; business interruptions, loss of use, or loss Cartifus in recent less of whether washes.	had to the amount paid by the client for the nal within 30 days after completion of the applicat of profits incurred by class the subsidiaries.	ole .	
elinquished By: Date: Date: Time: Date: Time:		Verbal Result: Call Results are email Call Results are email Call Results are email Call Remarks:	Verbal Result: □ Yes INO Add"I Phone #: All Results are emailed. Please provide Email address: Christen. Linu Hetratel. Con REMARKS:	
elivered By: (Circle One) Observed Temp. °C 22-8 ampler - UPS - Bus - Other: Corrected Temp. °C 22-3	Sample Condition Cool Intact Over Tyes No No	CHECKED BY: Turnaround Time: (Initials) Thermometer ID #113 Correction Factor -0.5°C	Standard Bacteria (only) S Rush Cool Infact Pes Pes	dition femp. °C
I CIVINITUDO IN S.Z. IU/U//ZI	ŀ			

Page 20 of 20



February 21, 2022

CHRISTIAN LLULL
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: MCA 2C HEADER EAST 2 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/16/22 15:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celeg D. Keene

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/16/2022 Sampling Date: 02/16/2022

Reported: 02/21/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes)
Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

Applyand By MC/

Project Location: COP - LEA CO NM

Sample ID: T - 1 (0-1') (H220609-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2022	ND	2.06	103	2.00	1.57	
Toluene*	<0.050	0.050	02/19/2022	ND	2.05	103	2.00	2.09	
Ethylbenzene*	<0.050	0.050	02/19/2022	ND	1.97	98.6	2.00	1.20	
Total Xylenes*	<0.150	0.150	02/19/2022	ND	6.12	102	6.00	0.966	
Total BTEX	<0.300	0.300	02/19/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	91.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	97.1	% 59.5-14	2						

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Celey D. Keine



Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/16/2022 Sampling Date: 02/16/2022

Reported: 02/21/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

Applyzod By: MC/

Project Location: COP - LEA CO NM

Sample ID: T - 1 (2'-3') (H220609-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2022	ND	2.06	103	2.00	1.57	
Toluene*	<0.050	0.050	02/19/2022	ND	2.05	103	2.00	2.09	
Ethylbenzene*	<0.050	0.050	02/19/2022	ND	1.97	98.6	2.00	1.20	
Total Xylenes*	<0.150	0.150	02/19/2022	ND	6.12	102	6.00	0.966	
Total BTEX	<0.300	0.300	02/19/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	85.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	90.8	% 59.5-14	2						

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Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/16/2022 Sampling Date: 02/16/2022

Reported: 02/21/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: T - 1 (4'-5') (H220609-03)

BTEX 8021B	mg	/kg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2022	ND	2.06	103	2.00	1.57	
Toluene*	<0.050	0.050	02/19/2022	ND	2.05	103	2.00	2.09	
Ethylbenzene*	<0.050	0.050	02/19/2022	ND	1.97	98.6	2.00	1.20	
Total Xylenes*	<0.150	0.150	02/19/2022	ND	6.12	102	6.00	0.966	
Total BTEX	<0.300	0.300	02/19/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7280	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	89.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	95.3	% 59.5-14	22						

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Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/16/2022 Sampling Date: 02/16/2022

Reported: 02/21/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: T - 1 (6'-7') (H220609-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2022	ND	2.06	103	2.00	1.57	
Toluene*	<0.050	0.050	02/19/2022	ND	2.05	103	2.00	2.09	
Ethylbenzene*	<0.050	0.050	02/19/2022	ND	1.97	98.6	2.00	1.20	
Total Xylenes*	<0.150	0.150	02/19/2022	ND	6.12	102	6.00	0.966	
Total BTEX	<0.300	0.300	02/19/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	80.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	85.7	% 59.5-14	2						

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Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/16/2022 Sampling Date: 02/16/2022

Reported: 02/21/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: T - 1 (9'-10') (H220609-05)

BTEX 8021B	mg,	<u> </u>	7,	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2022	ND	2.23	112	2.00	4.26	
Toluene*	<0.050	0.050	02/18/2022	ND	2.22	111	2.00	4.68	
Ethylbenzene*	<0.050	0.050	02/18/2022	ND	2.14	107	2.00	4.06	
Total Xylenes*	<0.150	0.150	02/18/2022	ND	6.62	110	6.00	3.65	
Total BTEX	<0.300	0.300	02/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	94.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	102	% 59.5-14	2						

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Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 02/16/2022 Sampling Date: 02/16/2022

Reported: Sampling Type: 02/21/2022 Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes) Project Number: Sample Received By: 212C - MD - 02119 Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: T - 1 (11'-12') (H220609-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2022	ND	2.23	112	2.00	4.26	
Toluene*	<0.050	0.050	02/18/2022	ND	2.22	111	2.00	4.68	
Ethylbenzene*	<0.050	0.050	02/18/2022	ND	2.14	107	2.00	4.06	
Total Xylenes*	<0.150	0.150	02/18/2022	ND	6.62	110	6.00	3.65	
Total BTEX	<0.300	0.300	02/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	92.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	100 9	% 59.5-14	2						

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Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/16/2022 Sampling Date: 02/16/2022

Reported: 02/21/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: T - 2 (0-1') (H220609-07)

BTEX 8021B	mg	/kg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2022	ND	2.23	112	2.00	4.26	
Toluene*	<0.050	0.050	02/18/2022	ND	2.22	111	2.00	4.68	
Ethylbenzene*	< 0.050	0.050	02/18/2022	ND	2.14	107	2.00	4.06	
Total Xylenes*	<0.150	0.150	02/18/2022	ND	6.62	110	6.00	3.65	
Total BTEX	<0.300	0.300	02/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	88.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	93.1	% 59.5-14	22						

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Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/16/2022 Sampling Date: 02/16/2022

Reported: 02/21/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: T - 2 (2'-3') (H220609-08)

Analyte Result Reporting Limit Analyzed Method Blank BS % Benzene* <0.050 0.050 02/18/2022 ND 2.23 Toluene* <0.050 0.050 02/18/2022 ND 2.22 Ethylbenzene* <0.050 0.050 02/18/2022 ND 2.14 Total Xylenes* <0.150 0.150 02/18/2022 ND 6.62	6 Recovery 112 111	True Value QC 2.00	RPD	Qualifier
Toluene* <0.050 0.050 02/18/2022 ND 2.22 Ethylbenzene* <0.050 0.050 02/18/2022 ND 2.14		2.00	4.26	
Ethylbenzene* <0.050 0.050 02/18/2022 ND 2.14	111		4.26	
·	111	2.00	4.68	
Total Xylenes* <0.150 0.150 02/18/2022 ND 6.62	107	2.00	4.06	
10tal Ayleries 10.130 0.130 02/10/2022 ND 0.02	110	6.00	3.65	
Total BTEX <0.300 0.300 02/18/2022 ND				
Surrogate: 4-Bromofluorobenzene (PID 104 % 69.9-140				
Chloride, SM4500Cl-B mg/kg Analyzed By: GM				
Analyte Result Reporting Limit Analyzed Method Blank BS %	6 Recovery	True Value QC	RPD	Qualifier
Chloride 2440 16.0 02/18/2022 ND 416	104	400	3.77	
TPH 8015M mg/kg Analyzed By: MS				
Analyte Result Reporting Limit Analyzed Method Blank BS %	6 Recovery	True Value QC	RPD	Qualifier
GRO C6-C10* <10.0 10.0 02/18/2022 ND 237	118	200	0.462	
DRO >C10-C28* <10.0 10.0 02/18/2022 ND 226	113	200	0.933	
EXT DRO >C28-C36 <10.0 10.0 02/18/2022 ND				
Surrogate: 1-Chlorooctane 89.5 % 66.9-136				
Surrogate: 1-Chlorooctadecane 94.5 % 59.5-142				

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Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/16/2022 Sampling Date: 02/16/2022

Reported: 02/21/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: T - 2 (4'-5') (H220609-09)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2022	ND	2.23	112	2.00	4.26	
Toluene*	<0.050	0.050	02/18/2022	ND	2.22	111	2.00	4.68	
Ethylbenzene*	<0.050	0.050	02/18/2022	ND	2.14	107	2.00	4.06	
Total Xylenes*	<0.150	0.150	02/18/2022	ND	6.62	110	6.00	3.65	
Total BTEX	<0.300	0.300	02/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	89.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	93.5	% 59.5-14	2						

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Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/16/2022 Sampling Date: 02/16/2022

Reported: 02/21/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: T - 2 (6'-7') (H220609-10)

BTEX 8021B	mg	/kg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2022	ND	2.23	112	2.00	4.26	
Toluene*	<0.050	0.050	02/18/2022	ND	2.22	111	2.00	4.68	
Ethylbenzene*	<0.050	0.050	02/18/2022	ND	2.14	107	2.00	4.06	
Total Xylenes*	<0.150	0.150	02/18/2022	ND	6.62	110	6.00	3.65	
Total BTEX	<0.300	0.300	02/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	85.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	88.6	% 59.5-14	22						

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Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 02/16/2022 Sampling Date: 02/16/2022

Reported: Sampling Type: Soil 02/21/2022

Fax To:

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes) Project Number: Tamara Oldaker 212C - MD - 02119 Sample Received By:

Project Location: COP - LEA CO NM

Sample ID: T - 2 (9'-10') (H220609-11)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2022	ND	2.23	112	2.00	4.26	
Toluene*	<0.050	0.050	02/18/2022	ND	2.22	111	2.00	4.68	
Ethylbenzene*	<0.050	0.050	02/18/2022	ND	2.14	107	2.00	4.06	
Total Xylenes*	<0.150	0.150	02/18/2022	ND	6.62	110	6.00	3.65	
Total BTEX	<0.300	0.300	02/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	86.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	91.0	% 59.5-14	2						

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Celecy D. Keene



Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/16/2022 Sampling Date: 02/16/2022

Reported: 02/21/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: T - 2 (11'-12') (H220609-12)

BTEX 8021B	mg	/kg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2022	ND	2.23	112	2.00	4.26	
Toluene*	<0.050	0.050	02/18/2022	ND	2.22	111	2.00	4.68	
Ethylbenzene*	<0.050	0.050	02/18/2022	ND	2.14	107	2.00	4.06	
Total Xylenes*	<0.150	0.150	02/18/2022	ND	6.62	110	6.00	3.65	
Total BTEX	<0.300	0.300	02/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	89.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	96.6	% 59.5-14	22						

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Celey D. Keene



Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 02/16/2022 Sampling Date: 02/16/2022

Reported: Sampling Type: 02/21/2022 Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes) Sample Received By: Project Number: 212C - MD - 02119 Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: T - 3 (0-1') (H220609-13)

BTEX 8021B	mg/	kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2022	ND	2.23	112	2.00	4.26	
Toluene*	<0.050	0.050	02/18/2022	ND	2.22	111	2.00	4.68	
Ethylbenzene*	<0.050	0.050	02/18/2022	ND	2.14	107	2.00	4.06	
Total Xylenes*	<0.150	0.150	02/18/2022	ND	6.62	110	6.00	3.65	
Total BTEX	<0.300	0.300	02/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	37.9	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	98.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	104 9	% 59.5-14	2						

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Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 02/16/2022 Sampling Date: 02/16/2022

Reported: Sampling Type: 02/21/2022 Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes) Sample Received By: Project Number: 212C - MD - 02119 Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: T - 3 (2'-3') (H220609-14)

BTEX 8021B	mg/	'kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2022	ND	2.23	112	2.00	4.26	
Toluene*	<0.050	0.050	02/18/2022	ND	2.22	111	2.00	4.68	
Ethylbenzene*	<0.050	0.050	02/18/2022	ND	2.14	107	2.00	4.06	
Total Xylenes*	<0.150	0.150	02/18/2022	ND	6.62	110	6.00	3.65	
Total BTEX	<0.300	0.300	02/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	85.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	89.0	% 59.5-14	2						

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Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/16/2022 Sampling Date: 02/16/2022

Reported: 02/21/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: T - 3 (4'-5') (H220609-15)

BTEX 8021B	mg	/kg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2022	ND	2.14	107	2.00	1.56	
Toluene*	<0.050	0.050	02/20/2022	ND	2.12	106	2.00	2.72	
Ethylbenzene*	<0.050	0.050	02/20/2022	ND	2.04	102	2.00	2.16	
Total Xylenes*	<0.150	0.150	02/20/2022	ND	6.33	106	6.00	2.59	
Total BTEX	<0.300	0.300	02/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	96.9	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	47.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	88.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	97.8	% 59.5-14	2						

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Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/16/2022 Sampling Date: 02/16/2022

Reported: 02/21/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: T - 3 (6'-7') (H220609-16)

BTEX 8021B	mg	/kg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2022	ND	2.14	107	2.00	1.56	
Toluene*	<0.050	0.050	02/20/2022	ND	2.12	106	2.00	2.72	
Ethylbenzene*	<0.050	0.050	02/20/2022	ND	2.04	102	2.00	2.16	
Total Xylenes*	<0.150	0.150	02/20/2022	ND	6.33	106	6.00	2.59	
Total BTEX	<0.300	0.300	02/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	114	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	11.1	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	86.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	95.1	% 59.5-14	2						

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Celeg D. Freene



Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 02/16/2022 Sampling Date: 02/16/2022

Reported: Sampling Type: 02/21/2022 Soil

Fax To:

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes) Tamara Oldaker Project Number: 212C - MD - 02119 Sample Received By:

Project Location: COP - LEA CO NM

Sample ID: T - 3 (9'-10') (H220609-17)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2022	ND	2.14	107	2.00	1.56	
Toluene*	<0.050	0.050	02/20/2022	ND	2.12	106	2.00	2.72	
Ethylbenzene*	<0.050	0.050	02/20/2022	ND	2.04	102	2.00	2.16	
Total Xylenes*	<0.150	0.150	02/20/2022	ND	6.33	106	6.00	2.59	
Total BTEX	<0.300	0.300	02/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS				1.56 2.72 2.16 2.59	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	117	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	23.8	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	90.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	100	% 59.5-14	2						

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Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/16/2022 Sampling Date: 02/16/2022

Reported: 02/21/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: T - 3 (11'-12') (H220609-18)

BTEX 8021B	mg	/kg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2022	ND	2.14	107	2.00	1.56	
Toluene*	<0.050	0.050	02/20/2022	ND	2.12	106	2.00	2.72	
Ethylbenzene*	<0.050	0.050	02/20/2022	ND	2.04	102	2.00	2.16	
Total Xylenes*	<0.150	0.150	02/20/2022	ND	6.33	106	6.00	2.59	
Total BTEX	<0.300	0.300	02/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	27.8	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	85.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	93.6	% 59.5-14	2						

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Celey D. Freene



Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 02/16/2022 Sampling Date: 02/16/2022

Reported: Sampling Type: 02/21/2022 Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes) Sample Received By: Project Number: 212C - MD - 02119 Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: T - 4 (0-1') (H220609-19)

BTEX 8021B	mg/	kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2022	ND	2.14	107	2.00	1.56	
Toluene*	<0.050	0.050	02/20/2022	ND	2.12	106	2.00	2.72	
Ethylbenzene*	<0.050	0.050	02/20/2022	ND	2.04	102	2.00	2.16	
Total Xylenes*	<0.150	0.150	02/20/2022	ND	6.33	106	6.00	2.59	
Total BTEX	<0.300	0.300	02/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	92.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	97.4	% 59.5-14	2						

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Celey D. Keine



Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/16/2022 Sampling Date: 02/16/2022

Reported: 02/21/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: T - 4 (2'-3') (H220609-20)

BTEX 8021B	mg	/kg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2022	ND	2.14	107	2.00	1.56	
Toluene*	<0.050	0.050	02/20/2022	ND	2.12	106	2.00	2.72	
Ethylbenzene*	<0.050	0.050	02/20/2022	ND	2.04	102	2.00	2.16	
Total Xylenes*	<0.150	0.150	02/20/2022	ND	6.33	106	6.00	2.59	
Total BTEX	<0.300	0.300	02/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (P.	ID 103	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	87.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	91.1	% 59.5-14	22						

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Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 02/16/2022 Sampling Date: 02/16/2022

Reported: Sampling Type: 02/21/2022 Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes) Sample Received By: Project Number: 212C - MD - 02119 Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: T - 4 (4'-5') (H220609-21)

BTEX 8021B	mg/	kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2022	ND	2.14	107	2.00	1.56	
Toluene*	<0.050	0.050	02/20/2022	ND	2.12	106	2.00	2.72	
Ethylbenzene*	<0.050	0.050	02/20/2022	ND	2.04	102	2.00	2.16	
Total Xylenes*	<0.150	0.150	02/20/2022	ND	6.33	106	6.00	2.59	
Total BTEX	<0.300	0.300	02/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	02/18/2022	ND	400	100	400	3.92	QM-07
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	219	110	200	0.691	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	215	107	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	94.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	94.6	% 59.5-14	2						

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Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 02/16/2022 Sampling Date: 02/16/2022

Reported: Sampling Type: 02/21/2022 Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes) Sample Received By: Project Number: 212C - MD - 02119 Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: T - 4 (6'-7') (H220609-22)

BTEX 8021B	mg/	kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2022	ND	2.14	107	2.00	1.56	
Toluene*	<0.050	0.050	02/20/2022	ND	2.12	106	2.00	2.72	
Ethylbenzene*	<0.050	0.050	02/20/2022	ND	2.04	102	2.00	2.16	
Total Xylenes*	<0.150	0.150	02/20/2022	ND	6.33	106	6.00	2.59	
Total BTEX	<0.300	0.300	02/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	02/18/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	219	110	200	0.691	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	215	107	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	96.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	96.6	% 59.5-14	2						

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Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 02/16/2022 Sampling Date: 02/16/2022

Reported: Sampling Type: 02/21/2022 Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes) Sample Received By: Project Number: 212C - MD - 02119 Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: T - 4 (9'-10') (H220609-23)

BTEX 8021B	mg/	kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2022	ND	2.14	107	2.00	1.56	
Toluene*	<0.050	0.050	02/20/2022	ND	2.12	106	2.00	2.72	
Ethylbenzene*	<0.050	0.050	02/20/2022	ND	2.04	102	2.00	2.16	
Total Xylenes*	<0.150	0.150	02/20/2022	ND	6.33	106	6.00	2.59	
Total BTEX	<0.300	0.300	02/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	02/18/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	219	110	200	0.691	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	215	107	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	98.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	99.5	% 59.5-14	2						

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Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/16/2022 Sampling Date: 02/16/2022

Reported: 02/21/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

Project Location: COP - LEA CO NM

Sample ID: T - 4 (11'-12') (H220609-24)

BTEX 8021B	mg	/kg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2022	ND	2.14	107	2.00	1.56	
Toluene*	<0.050	0.050	02/20/2022	ND	2.12	106	2.00	2.72	
Ethylbenzene*	<0.050	0.050	02/20/2022	ND	2.04	102	2.00	2.16	
Total Xylenes*	<0.150	0.150	02/20/2022	ND	6.33	106	6.00	2.59	
Total BTEX	<0.300	0.300	02/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	02/18/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	219	110	200	0.691	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	215	107	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	99.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	100	% 59.5-14	22						

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Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Corrected Temp. °C 22.3 Observed Temp. °C 22.8

Sample Condition
Cool Intact
Yes Tes
No No No

CHECKED BY: (Initials)

Turnaround Time:

Standard

Bacteria (only) Sample Condition
Cool Intact Observed Temp.

Yes Yes
No Corrected Temp.

Corrected Temp. °C Observed Temp. °C

Thermometer ID #113 Correction Factor -0.5°C

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 EAY (575) 393-2476

	(010) 000-2020 FAA (010) 000-24/0	V (010) 283-7	410					ı																											
Company Name:	Coroco Philly	De												8		BILL TO							ANALYSIS	\geq	X	뚨		M	씯	REQUEST	۲				
Project Manager:	5	lash								_	P.O. #:	#								\exists	_			_		_		_		_		\dashv	\dashv	_	
Address: Chy	Mar. Unite	MotoAntre	ducan	3	_					_	or or	npa	any	1	62	Company: Tetras Tech	2															_			
City:		State:	Zip:							_	Attn:		5	7	T	30	lute				_					_		_				_			
Phone #:		Fax #:								_	Address: 14	res	S	-	5	ero	1													_		_			
Project #: 2/2	-MD-02/19 Project Owner:	Project Owne	ā							_	City:				,													_		_		_			
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Project Location:	Lea County	m								277	Phone #:	ne	#															_							
Sampler Name:	Cotton Brike	er fr								70	Fax #:	#																							
FOR LAB USE ONLY			٠,		П	11	3	MATRIX	×	- 1	-	PRESERV.	SE	R		SAMPLING	ING				当					_									
Lab I.D.	Sample I.D.	Ģ	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE		OTHER:	ACID/BASE:	ICE / COOL	OTHER:	77	DATE	TIME	TPH	BTER	11: 1	Chloride														
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5	-1 66-10)								-	-	_					+			-					-		-				-					
26	-1 (11-12)								+	-	+	-																		-		-			
2000	-2 (2:3)																													11		-	-		
677	2 (4.5)						/		-	-	+	-	-					+	-	-						-		-		-		-		-	
EASE NOTE: Liability and Da allyses. All claims including the rvice. In no event shall Cardina	LEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the subyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable price. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.	s exclusive remedy for a se whatsoever shall be antal damages, including	ny claim dearned without	arisin waive limita	d un	ethor ess r	base nade	in win	ontra ting a	nd re	of us	hall b	e lim	mai w	offits in	amount paid by 30 days after or incurred by clien	The client for the ompletion of the of the subsidiaries	applicab	6	t	F			-	- 1	-		-	- 1	-		-	t	1	L
telinquished By:	Ilinquished By: Date: Time: 08 Received By: Ilinquished By: Date: Received By: Received By:	Date: 08	Received By:	eiv eiv	ed led	By	· · · · · · · · · · · · · · · · · · ·	Sus sud	clair	A SE	A Dig	The sport	As Carlo	of the	as by	upon any of the above stated nasco	Verbal Result: Yes	are emai	□ Yes nailed.	3 P	ase pr	Yes D'No Add'l Phone #: Id. Please provide Email address: Liming Jetateth. Com	Add"I Phone #: de Email addre	ma ma	adhon	dre #	88	3				**9			
		Time:																																	

Page 27 of 29

Relinquished By:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Corrected Temp. °C

Cool Intact

Yes Yes

No | No Sample Condition

> CHECKED BY: (Initials)

> > Turnaround Time:

Standard

Bacteria (only) Sample Condition
Cool Intact Observed Temp.

Ves Yes
No Corrected Temp.

Observed Temp. °C Corrected Temp. °C

REMARKS:

Thermometer ID #113 Correction Factor -0.5°C

Observed Temp. °C 22.8

Time:

Relinquished By:

Date: 2/6/22

All Results are emailed. Please provide Email address:

NO NO

Add'l Phone #:

hotston. I'm exchantech. com

Time: 08

Received By:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX (575) 393-2476

Company Name: Canto PLHILL		BILL TO	ANALYSIS REQUEST
Project Manager: Chattates Llutte	8	P.O. #:	
Address: Chrysten Llul She too te	ch, can	Company: Topker took	
	Zip:	Attn: Chatter Land	
hone #: Fax #:		Address: by chall	
Project #: 2/2C-MD-02M9 Project Owner:		City:	
Project Name: MA 21 Header Bas	Bast my Reloade	State: Zip:	
roject Location: Lea Courten MM		Phone #:	
Sampler Name: Colton Rickartha		Fax #:	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	25
Lab I.D. Sample I.D.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	TPH BTEX Chloride
11 1-269-161)	×		XXX
13 7-3 (0-13)			
14 T-3 (2-3)			
16 7-3 (6.7)			
17 1-3 69-16")			
18 +-3(11-12)			
19 7-4 6-11)			
20 T-4 (2'-3')	< <	+	

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Page 28 of 29

Sampler - UPS - Bus - Other:

Corrected Temp. °C Observed Temp. °C

Cool lotact

Yes Ves
No No Sample Condition

CHECKED BY:

Turnaround Time:

Standard Rush

Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C

Yes Yes
No Corrected Temp. °C

Thermometer ID #113 Correction Factor -0.5°C

8.66 22.3

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Delivered By: (Circle One)

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	Laboratories

Company Name: Co	P.O. #: Tech Cars Company: Tetre Tech Zip: Attn: Chriffpa, Und Address: by chaft	ANALYSIS REQUEST
Project Name: MA 22 Hooder Bost my Project Location: Los Comman MM	Phone #:	
10	Phone #: Fax #:	
Ca Caraca	MATRIX PRESERV SAMPLING	
Lab I.D. Sample I.D.	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TPH BTEX (Mortdes
33 7-4 69-69)	—-×	X X
34 T-4 (11-42')	*	J J J
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for a	any claim arising whether besed in contract of fort shall be limited to the amount oxid by the client for the	
Relinquished By: Relinquished By: Relinquished By: Relinquished By: Date:	ry claim arising whether based in contract or fort, shall be limited to the amount paid beemed walved unless made in writing and recoived by Cardinal within 30 days after without limitation, business interruptions, loss of use, or loss of profits incurred by claracteristic of whether such claim is based upon any of the above stated rear Received By:	to the clear for the applicable completion of the applicable for the a

Page 29 of 29



February 25, 2022

CHRISTIAN LLULL
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: MCA 2C HEADER EAST 2 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/21/22 12:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Wite South

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 02/21/2022 Sampling Date: 02/21/2022

Reported: 02/25/2022 Sampling Type: Soil

Project Name: MCA 2C HEADER EAST 2 RELEASE Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02119 Sample Received By: Tamara Oldaker

A .. . l. d D. .. MC

Project Location: COP - LEA CO NM

Sample ID: AH - 9 (0-1') (H220655-01)

DTEV 0021D

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2022	ND	2.25	113	2.00	0.275	
Toluene*	<0.050	0.050	02/24/2022	ND	2.34	117	2.00	2.29	
Ethylbenzene*	< 0.050	0.050	02/24/2022	ND	2.29	115	2.00	1.40	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	7.12	119	6.00	1.17	
Total BTEX	<0.300	0.300	02/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/22/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2022	ND	210	105	200	3.13	
DRO >C10-C28*	<10.0	10.0	02/23/2022	ND	213	106	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	02/23/2022	ND					
Surrogate: 1-Chlorooctane	104 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	106 9	% 59.5-14	2						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Released to Imaging: 1/25/2024 2:29:01 RM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Loldon Bickedo	PLEASE NOTE: Lability and Damages. Cardinal's flability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be finited to the amount paid by the client for the snaybes. All claims including those for nepligence and any other cause whatsoever shall be deemed walked unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be fashe for incidental or consequential damages, including without finitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, infinitely or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Received Ru.	W-72		Sampler Name: Coltron	-2	Project #:		Address: Choffshan Du	Project Manager: Advana
Observed Temp. °C /	Time:	Sability and client's exclusive remedy for any and any other cause whatsoever shall be de dental or corresquential damages, including ye performance of services hereunder by Ca Date:	(<i>Q-</i> ()	Sample I.D.	Blikenay	L Header Batt my	021/9 Project Owner	6	Oto	hotellas LIM
ed Temp. °C / Sample Condition CHECKED BY: Thurnaround Time: Cool Intact (Initials) Thermometer ID #113 Correction Factor -0.5**	Received By:	sability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the ans including those for negligence and any other cause whitscower shall be deemed waiwed unless made in writing and received by Cardinal within 30 if shall Cardinal be liable for incidental or consequental damages, including without innation, business interruptions, loss of use, or loss of profits incuding without innation, business interruptions, loss of use, or loss of profits incuding satisfag out of or related to the performance of services hereunder to Cardinal, regardless of whether such claim is based upon any of the above ed By:	×	# CONTAINERS GROUNDWATER WASTEWATER	MATRIX	2" Release		ip:		
CHECKED BY: Tur	Mass of All Re	t, shall be limited to the amount paid by the following the following steer common to the steer common to	X 2/21/22		Phone #: Fax #:	State: Zip:	ess: by el	THE !	my: Todas T	P.O. #:
Turnaround Time: Standard Thermometer ID #113 Correction Factor -0.5°C	Verbal Result:	splicable		TPH BTEX	Š.		7	A B	74	
Bacteria (only) S Cool Intact Yes No No	El No Add'l Phone #: Pase provide Email address: Otthertich (ar-									ANALYSIS REQ
Ample Condition Observed Temp. °C										REQUEST

APPENDIX D Laboratory Analytical Data

Part 3
Confirmation Soil Samples
nRM1930950727 and nAPP2117456525



March 17, 2023

CHRISTIAN LLULL
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: MCA 2C REMEDIATION

Enclosed are the results of analyses for samples received by the laboratory on 03/16/23 16:02.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 03/16/2023 Sampling Date: 03/16/2023
Reported: 03/17/2023 Sampling Type: Soil

Fax To:

Project Name: MCA 2C REMEDIATION Sampling Condition: ** (See Notes)
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: FS - 1 (H231212-01)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.06	103	2.00	0.570	
Toluene*	<0.050	0.050	03/16/2023	ND	2.05	103	2.00	0.880	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.14	107	2.00	0.488	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.63	111	6.00	1.94	
Total BTEX	<0.300	0.300	03/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/17/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2023	ND	196	97.9	200	3.37	
DRO >C10-C28*	97.2	10.0	03/17/2023	ND	195	97.4	200	8.25	
EXT DRO >C28-C36	119	10.0	03/17/2023	ND					
Surrogate: 1-Chlorooctane	95.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 03/16/2023 Sampling Date: 03/16/2023 Soil

Reported: 03/17/2023 Sampling Type: Project Name: MCA 2C REMEDIATION Sampling Condition: ** (See Notes)

Sample Received By: Project Number: 212C - HN - 02235 Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: ESW - 2 (H231212-02)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.06	103	2.00	0.570	
Toluene*	<0.050	0.050	03/16/2023	ND	2.05	103	2.00	0.880	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.14	107	2.00	0.488	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.63	111	6.00	1.94	
Total BTEX	<0.300	0.300	03/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/17/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2023	ND	196	97.9	200	3.37	
DRO >C10-C28*	<10.0	10.0	03/17/2023	ND	195	97.4	200	8.25	
EXT DRO >C28-C36	<10.0	10.0	03/17/2023	ND					
Surrogate: 1-Chlorooctane	94.8 % 48.2-		4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/16/2023 Sampling Date: 03/16/2023

Reported: 03/17/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: ** (See Notes)
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MALJAMAR, NM

mg/kg

Sample ID: ESW - 3 (H231212-03)

BTEX 8021B

DILX GOZID	11197 119		Analyzea by: 311						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2023	ND	2.06	103	2.00	0.570	
Toluene*	<0.050	0.050	03/17/2023	ND	2.05	103	2.00	0.880	
Ethylbenzene*	<0.050	0.050	03/17/2023	ND	2.14	107	2.00	0.488	
Total Xylenes*	<0.150	0.150	03/17/2023	ND	6.63	111	6.00	1.94	
Total BTEX	<0.300	0.300	03/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/17/2023	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2023	ND	196	97.9	200	3.37	
DRO >C10-C28*	<10.0	10.0	03/17/2023	ND	195	97.4	200	8.25	
EXT DRO >C28-C36	<10.0	10.0	03/17/2023	ND					
Surrogate: 1-Chlorooctane	91.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.7	% 49.1-14	8						

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Celeg D. Kreine



Tamara Oldaker

Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 03/16/2023 Sampling Date: 03/16/2023 Reported: 03/17/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: ** (See Notes)

Project Number: 212C - HN - 02235 Sample Received By: Project Location: MALJAMAR, NM

Sample ID: WSW - 1 (H231212-04)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2023	ND	2.06	103	2.00	0.570	
Toluene*	<0.050	0.050	03/17/2023	ND	2.05	103	2.00	0.880	
Ethylbenzene*	<0.050	0.050	03/17/2023	ND	2.14	107	2.00	0.488	
Total Xylenes*	<0.150	0.150	03/17/2023	ND	6.63	111	6.00	1.94	
Total BTEX	<0.300	0.300	03/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/17/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2023	ND	196	97.9	200	3.37	
DRO >C10-C28*	<10.0	10.0	03/17/2023	ND	195	97.4	200	8.25	
EXT DRO >C28-C36	<10.0	10.0	03/17/2023	ND					
Surrogate: 1-Chlorooctane	rrogate: 1-Chlorooctane 95.4 %		4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 03/16/2023 Sampling Date: 03/16/2023 Reported: 03/17/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: ** (See Notes) Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: WSW - 2 (H231212-05)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2023	ND	2.06	103	2.00	0.570	
Toluene*	<0.050	0.050	03/17/2023	ND	2.05	103	2.00	0.880	
Ethylbenzene*	<0.050	0.050	03/17/2023	ND	2.14	107	2.00	0.488	
Total Xylenes*	<0.150	0.150	03/17/2023	ND	6.63	111	6.00	1.94	
Total BTEX	<0.300	0.300	03/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/17/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2023	ND	196	97.9	200	3.37	
DRO >C10-C28*	<10.0	10.0	03/17/2023	ND	195	97.4	200	8.25	
EXT DRO >C28-C36	<10.0	10.0	03/17/2023	ND					
Surrogate: 1-Chlorooctane	rogate: 1-Chlorooctane 93.3 %		4						
Surrogate: 1-Chlorooctadecane	100 9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/16/2023 Sampling Date: 03/16/2023

Reported: 03/17/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: ** (See Notes)
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: WSW - 3 (H231212-06)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2023	ND	2.06	103	2.00	0.570	
Toluene*	<0.050	0.050	03/17/2023	ND	2.05	103	2.00	0.880	
Ethylbenzene*	<0.050	0.050	03/17/2023	ND	2.14	107	2.00	0.488	
Total Xylenes*	<0.150	0.150	03/17/2023	ND	6.63	111	6.00	1.94	
Total BTEX	<0.300	0.300	03/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/17/2023	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2023	ND	196	97.9	200	3.37	
DRO >C10-C28*	<10.0	10.0	03/17/2023	ND	195	97.4	200	8.25	
EXT DRO >C28-C36	<10.0	10.0	03/17/2023	ND					
Surrogate: 1-Chlorooctane	92.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Celeg D. Kreine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

A No II No II No Correction ractor at a No II No	nges to celey.ke	nges. Please email cha	annot accent verhal chan	+ Cardinal Ca	FORM-000 R 3.3 07/10/22
Rush Cool Intact	Thermometer ID #1	on CHECKED BY:	Sample Condition Cool Intact Cool Intact Yes Tres	Observed Temp. °C	Delivered By: (Circle One)
				Time:	
	REMARKS:		Received By:	Date:	By:
		THE SEC	Manual .	Time: 4.22	Charles tomine
Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #: All Results are emailed. Please provide Email address:	Verbal Result: All Results are en	11110		118	Relinquished By:
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able	d by the client for the r completion of the applicable	or tort, shall be limited to the amount pa received by Cardinal within 30 days aft	ctairn arising whether based in contract or emed waived unless made in writing and	ilty and client's exclusive remedy for any	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the PLEASE NOTE: Liability and Damages. Cardinal within 30 days eiter completion of the applicable
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ANALYSIS REQUEST		BILL TO		4	Company Name: The The
			0,	(575) 393-2326 FAX (575) 393-2476	(575) 393-232



March 20, 2023

CHUCK TERHUNE
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: MCA 2C REMEDIATION

Enclosed are the results of analyses for samples received by the laboratory on 03/17/23 11:38.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 03/17/2023 Sampling Date: 03/17/2023

Reported: 03/20/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: FS - 3 (H231228-01)

BTEX 8021B	mg,	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2023	ND	1.96	98.2	2.00	2.98	
Toluene*	<0.050	0.050	03/17/2023	ND	1.94	97.2	2.00	4.83	
Ethylbenzene*	<0.050	0.050	03/17/2023	ND	1.93	96.3	2.00	4.33	
Total Xylenes*	<0.150	0.150	03/17/2023	ND	5.81	96.9	6.00	3.94	
Total BTEX	<0.300	0.300	03/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/20/2023	ND	432	108	400	7.69	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2023	ND	184	92.2	200	3.24	
DRO >C10-C28*	<10.0	10.0	03/17/2023	ND	176	87.9	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	03/17/2023	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/17/2023 Sampling Date: 03/17/2023

Reported: 03/20/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: FS - 4 (H231228-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2023	ND	1.96	98.2	2.00	2.98	
Toluene*	<0.050	0.050	03/17/2023	ND	1.94	97.2	2.00	4.83	
Ethylbenzene*	< 0.050	0.050	03/17/2023	ND	1.93	96.3	2.00	4.33	
Total Xylenes*	<0.150	0.150	03/17/2023	ND	5.81	96.9	6.00	3.94	
Total BTEX	<0.300	0.300	03/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/20/2023	ND	432	108	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2023	ND	184	92.2	200	3.24	
DRO >C10-C28*	<10.0	10.0	03/18/2023	ND	176	87.9	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	03/18/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Kreine



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey & Keine

CHAIN-OF-CUSTODY AND ANALYSIS PEQUEST



Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Relinquished By: Charles Lember Relinquished By:	PLEASE NOTE: Liability and Damages. Cardinal analyses. All claims including those for negligeno service. In no event shall Cardinal be liable for in-			285-4	H23 1528	Lab I.D. Sai	FOR LAB USE ONLY	hai	Project Location: Mal 1600	1	Phone #: 28 - 753	city: Hosto	~	Project Manager: Charles	Company Name:	101 East Mariano (575) 393-2326
Observed Temp. °C 3.8 Sample Condition CHEC (In Coorrected Temp. °C 3.8 Pyes Pyes	Date: Time: 1:38 Received By: Time: Time:	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or for, shall be limited to the amount pold by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 deep after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by clear, it loss of profits incurred by client, its subsidistries, assistance. In no event shall Cardinal be liable for incidental or consequents diamages, including without fination, business injury profits, loss of use, or loss of profits incurred by client, its subsidistries.	y		* * *	# G W S S C C A A M M M M M M M M M M M M M M M M	Sample I.D. S)RAB OR (C)ON CONTAINERS ROUNDWATER VASTEWATER OIL LUDGE OTHER: CID/BASE: CE / COOL OTHER:	MATRIX PRESERV	than! Fax	Phone #:	HW-02655 Project Owner: State:		TX Zip: 7704 C	Lost Blud Suite 1000 Company:	P.O. #: 212C		FAX (575) 393-2476
CHECKED BY: Turnaround Time: Standard Continue: Standard Cool Intact Observed Temp. °C Cool Intact Observed Temp. °C Corrected Temp. °C Corrected Temp. °C Corrected Temp. °C	s are emailed. Please provide Ema	at the amount pad by the cleant for the applicable at within 30 days after completion of the applicable for the foliation of the applicable focus of the deep the state of the applicable focus of the state of the state of the above state of reasons or otherwise. The above state of reasons or otherwise. The DAGO! Phone #:			03/17/0:36 7 1 1	03/17	BTEX TPH Chloria	SAMPLING	1		Zip:	Sand	L'AS ECHON	Tetra Tech	P.O. #: 2175-4W-02235	BILL TO ANALYSIS REQUEST	ANALYCIO



March 22, 2023

CHUCK TERHUNE
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: MCA 2C REMEDIATION

Enclosed are the results of analyses for samples received by the laboratory on 03/20/23 15:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 03/20/2023 Sampling Date: 03/20/2023
Reported: 03/22/2023 Sampling Type: Soil

Fax To:

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: WSW - 4 (H231257-01)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2023	ND	2.21	110	2.00	5.77	
Toluene*	<0.050	0.050	03/21/2023	ND	2.24	112	2.00	6.28	
Ethylbenzene*	<0.050	0.050	03/21/2023	ND	2.18	109	2.00	4.45	
Total Xylenes*	<0.150	0.150	03/21/2023	ND	6.76	113	6.00	4.18	
Total BTEX	<0.300	0.300	03/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/21/2023	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2023	ND	172	85.9	200	7.86	
DRO >C10-C28*	63.4	10.0	03/22/2023	ND	158	79.1	200	13.6	
EXT DRO >C28-C36	32.5	10.0	03/22/2023	ND					
Surrogate: 1-Chlorooctane	92.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Kreine



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/20/2023 Sampling Date: 03/20/2023

Reported: 03/22/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Analyzed By: 1H /

Project Location: MALJAMAR, NM

ma/ka

Sample ID: ESW - 4 (H231257-02)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2023	ND	2.21	110	2.00	5.77	
Toluene*	<0.050	0.050	03/21/2023	ND	2.24	112	2.00	6.28	
Ethylbenzene*	<0.050	0.050	03/21/2023	ND	2.18	109	2.00	4.45	
Total Xylenes*	<0.150	0.150	03/21/2023	ND	6.76	113	6.00	4.18	
Total BTEX	<0.300	0.300	03/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/21/2023	ND	432	108	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2023	ND	172	85.9	200	7.86	
DRO >C10-C28*	<10.0	10.0	03/22/2023	ND	158	79.1	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	03/22/2023	ND					
Surrogate: 1-Chlorooctane	96.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/20/2023 Sampling Date: 03/20/2023

Reported: 03/22/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: MALJAMAR, NM

mg/kg

Sample ID: WSW - 5 (H231257-03)

BTEX 8021B

DIEX GOZID	- COZID IIIg/ kg				Analyzea by: 511/				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2023	ND	2.21	110	2.00	5.77	
Toluene*	<0.050	0.050	03/21/2023	ND	2.24	112	2.00	6.28	
Ethylbenzene*	<0.050	0.050	03/21/2023	ND	2.18	109	2.00	4.45	
Total Xylenes*	<0.150	0.150	03/21/2023	ND	6.76	113	6.00	4.18	
Total BTEX	<0.300	0.300	03/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/21/2023	ND	432	108	400	7.69	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2023	ND	172	85.9	200	7.86	
DRO >C10-C28*	<10.0	10.0	03/22/2023	ND	158	79.1	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	03/22/2023	ND					
Surrogate: 1-Chlorooctane	97.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/20/2023 Sampling Date: 03/20/2023

Reported: 03/22/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Analyzed By: 1H /

Project Location: MALJAMAR, NM

ma/ka

Sample ID: ESW - 5 (H231257-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	ea By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2023	ND	2.21	110	2.00	5.77	
Toluene*	<0.050	0.050	03/21/2023	ND	2.24	112	2.00	6.28	
Ethylbenzene*	<0.050	0.050	03/21/2023	ND	2.18	109	2.00	4.45	
Total Xylenes*	<0.150	0.150	03/21/2023	ND	6.76	113	6.00	4.18	
Total BTEX	<0.300	0.300	03/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/21/2023	ND	432	108	400	7.69	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2023	ND	172	85.9	200	7.86	
DRO >C10-C28*	<10.0	10.0	03/22/2023	ND	158	79.1	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	03/22/2023	ND					
Surrogate: 1-Chlorooctane	94.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/20/2023 Sampling Date: 03/20/2023

Reported: 03/22/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: MALJAMAR, NM

mg/kg

Sample ID: FS - 5 (H231257-05)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzed by: 511/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2023	ND	2.21	110	2.00	5.77	
Toluene*	<0.050	0.050	03/21/2023	ND	2.24	112	2.00	6.28	
Ethylbenzene*	<0.050	0.050	03/21/2023	ND	2.18	109	2.00	4.45	
Total Xylenes*	<0.150	0.150	03/21/2023	ND	6.76	113	6.00	4.18	
Total BTEX	<0.300	0.300	03/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/21/2023	ND	432	108	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2023	ND	172	85.9	200	7.86	
DRO >C10-C28*	<10.0	10.0	03/22/2023	ND	158	79.1	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	03/22/2023	ND					
Surrogate: 1-Chlorooctane	91.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

PLEASE NOTE: Liability and Damages. can analyses. All claims including those for no service. In no event shall Cardinal be lab affiliates or successors arising out of or rel Relinquished By: Droely Lymbol. Relinquished By: Clinto Cont.	Project Manager: Char Address: 1500 (ity IN City: Houston Phone #: 781-755-8 Project #: 7172-407 Project Name: MLA 76 Project Location: Muly A 76 Project Location: Muly A 76 Project Name: 8 raty I I WSW-4 7 FOR LAB I.D. Sall FOR LAB USW-5 8 WSW-5 9 KS-5
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any claim arising whether based in contract or to be deemed walked unless made in writing and recording without limitation, business interruptions, loss of Cardinal, regardless of whether such claim is based. Received By:	GROUNDWATER WASTEWATER XXXXX SOIL OIL SLUDGE
rt, shall be limited to the amount paid by overed by Cardinal within 30 days after co of use, or loss of profits incurred by client sed upon any of the above stated reason V.V.	Company: John Templing P.O. #: 2176 - HW-02728 Company: John Templing Attn: Chuck Texhune Address: City: State: Zip: Phone #: PRESERV SAMPLING OTHER: ACID/BASE: ICE / COOL OTHER: 3/20/23/24/23/25/25/25/25/25/25/25/25/25/25/25/25/25/
pplicable It:	SIZSS BY SOZIB XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
□ No Add'I Phone #:	Chloride by SM 4500 CI-B
	SIS REQUEST



March 23, 2023

CHUCK TERHUNE
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: MCA 2C REMEDIATION

Enclosed are the results of analyses for samples received by the laboratory on 03/21/23 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keene

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/21/2023 Sampling Date: 03/21/2023

Reported: 03/23/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

A ... - I. ... - - I D. ... 311 /

Project Location: MALJAMAR, NM

Sample ID: WSW - 6 (H231289-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	1.99	99.3	2.00	0.793	
Toluene*	<0.050	0.050	03/22/2023	ND	2.00	99.9	2.00	2.93	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.10	102	6.00	1.67	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/23/2023	ND	432	108	400	7.14	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	158	78.9	200	4.77	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	176	87.8	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	110 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	134	% 49.1-14	8						

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Celeg D. Kreene



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 03/21/2023 Sampling Date: 03/21/2023

Reported: 03/23/2023 Sampling Type: Soil

Fax To:

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: ESW - 6 (H231289-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	1.99	99.3	2.00	0.793	
Toluene*	<0.050	0.050	03/22/2023	ND	2.00	99.9	2.00	2.93	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.10	102	6.00	1.67	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/23/2023	ND	432	108	400	7.14	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	158	78.9	200	4.77	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	176	87.8	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	133	% 49.1-14	8						

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Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/21/2023 Sampling Date: 03/21/2023

Reported: 03/23/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Analyzed By: 1H /

Project Location: MALJAMAR, NM

ma/ka

Sample ID: FS - 6 (H231289-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	1.99	99.3	2.00	0.793	
Toluene*	<0.050	0.050	03/22/2023	ND	2.00	99.9	2.00	2.93	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.10	102	6.00	1.67	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/23/2023	ND	432	108	400	7.14	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	158	78.9	200	4.77	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	176	87.8	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	133	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 03/21/2023 Sampling Date: 03/21/2023

Reported: 03/23/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact Project Number: Tamara Oldaker 212C - HN - 02235 Sample Received By:

Project Location: MALJAMAR, NM

Sample ID: WSW - 7 (H231289-04)

BTEX 8021B	mg/	'kg	Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	1.99	99.3	2.00	0.793	
Toluene*	<0.050	0.050	03/22/2023	ND	2.00	99.9	2.00	2.93	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.10	102	6.00	1.67	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/23/2023	ND	432	108	400	7.14	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	158	78.9	200	4.77	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	176	87.8	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124 9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 03/21/2023 Sampling Date: 03/21/2023

Reported: 03/23/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C - HN - 02235 Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: ESW - 7 (H231289-05)

BTEX 8021B	mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	1.99	99.3	2.00	0.793	
Toluene*	<0.050	0.050	03/22/2023	ND	2.00	99.9	2.00	2.93	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.10	102	6.00	1.67	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/23/2023	ND	432	108	400	7.14	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	158	78.9	200	4.77	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	176	87.8	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 03/21/2023 Sampling Date: 03/21/2023

Reported: 03/23/2023 Sampling Type: Soil

Fax To:

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: MALJAMAR, NM

mg/kg

Sample ID: FS - 7 (H231289-06)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Allulyzo	a by. 5117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	1.99	99.3	2.00	0.793	
Toluene*	<0.050	0.050	03/22/2023	ND	2.00	99.9	2.00	2.93	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.10	102	6.00	1.67	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/23/2023	ND	432	108	400	7.14	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	158	78.9	200	4.77	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	176	87.8	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	132	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 03/21/2023 Sampling Date: 03/21/2023

Reported: 03/23/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C - HN - 02235 Sample Received By:

Project Location: MALJAMAR, NM

Sample ID: FS - 8 (H231289-07)

BTEX 8021B	mg/	'kg	Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	1.99	99.3	2.00	0.793	
Toluene*	<0.050	0.050	03/22/2023	ND	2.00	99.9	2.00	2.93	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.10	102	6.00	1.67	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/23/2023	ND	432	108	400	7.14	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	158	78.9	200	4.77	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	176	87.8	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	107 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127 9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 03/21/2023 Sampling Date: 03/21/2023

Reported: 03/23/2023 Sampling Type: Soil

Fax To:

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: WSW - 8 (H231289-08)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	1.99	99.3	2.00	0.793	
Toluene*	<0.050	0.050	03/22/2023	ND	2.00	99.9	2.00	2.93	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.10	102	6.00	1.67	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/23/2023	ND	432	108	400	7.14	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	158	78.9	200	4.77	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	176	87.8	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	112	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	135	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 03/21/2023 Sampling Date: 03/21/2023

Reported: 03/23/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C - HN - 02235 Sample Received By:

Project Location: MALJAMAR, NM

Sample ID: FS - 9 (H231289-09)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	1.99	99.3	2.00	0.793	
Toluene*	<0.050	0.050	03/22/2023	ND	2.00	99.9	2.00	2.93	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.10	102	6.00	1.67	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/23/2023	ND	432	108	400	7.14	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	158	78.9	200	4.77	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	176	87.8	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	108 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Relinquished By:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Observed Temp. °C
Corrected Temp. °C

Sample Condition

CHECKED BY:

Turnaround Time:

Standard

Cool Intact

Observed Temp. °C
Corrected Temp. °C

☐ Yes ☐ Yes ☐ No ☐ No

Bacteria (only) Sample Condition

Relinquished By:

Brody Lichtenburger

Date: 3/21/23 Time: 1615

Date: Time:

Received By

REMARKS:

service. In no event shall Cardinal be liable

ns, loss of use, or loss of profits incurred by client, its subsidiaries

All Results are emailed. Please provide Email address:

ONO

Add'I Phone #:

Verbal Result:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST PONGTHOLE

Company Name: Total	BILL TO	ANALYSIS REQUEST
Churles les	P.O. #: 2126 110 0823	
+	Soile 1000 company: Tetra Tech, Inc	
	240	
Phone #: 281-755-8965 Fax #:	Address:	
Project #: 2126-HN-02235 Project Owner:	ner: City:	45
Project Name: MCA ZC Remediation	State: Zip:	
Project Location: Malumus, NM	Phone #:	m
Sampler Name: Rocky Lichtenberger	Fax#:	
FOR LAB USE ONLY	MATRIX PRESERV. SAMPLING	80
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX by TPH by ! Chloride
1 WSW-G	611 X X 3/21/23 0815	SIS X X X SIB
2 ESW-6	6 X X 3/2/125 0935	35 X X X
3 55-6	×	346 X X X
L-MSW #	6,1 X X 3/2/23 1040	HO X X X
S 65W-7	1 X X Siz	45 X X X
6 45-7	×	250 X X X
7 7 7 - 24 7	1 X X 3/21/23	10SK X X X
8 WSW-8		1230 X X X
15-9	6.11 X X 3/21/23 17	1300 X X X
LEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy t	or any claim arising whether based in contract or fort, shall be limited to the amount paid by th	a client for the
LEASE NOTE: Liability and Darmages. Cardinal's liability and client's exclusive remedy for a	LEASE NOTE: Liability and Damages. Cardnai's liability and client's exclusive remedy for any claim arising whether based in contract or for, shall be limited to the amount paid by the client for the	to clent for the

Thermometer ID #113 Correction Factor -0.6°C



March 23, 2023

CHUCK TERHUNE
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: MCA 2C REMEDIATION

Enclosed are the results of analyses for samples received by the laboratory on 03/22/23 15:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keene

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/22/2023 Sampling Date: 03/22/2023

Reported: 03/23/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyand By 14

Project Location: MALJAMAR, NM

Sample ID: ESW - 8 (H231323-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.04	102	2.00	0.305	
Toluene*	<0.050	0.050	03/22/2023	ND	2.07	103	2.00	0.518	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.16	108	2.00	0.331	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.63	111	6.00	0.172	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/23/2023	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	120	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	137	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/22/2023 Sampling Date: 03/22/2023

Reported: 03/23/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MALJAMAR, NM

ma/ka

Sample ID: ESW - 9 (H231323-02)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.04	102	2.00	0.305	
Toluene*	<0.050	0.050	03/22/2023	ND	2.07	103	2.00	0.518	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.16	108	2.00	0.331	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.63	111	6.00	0.172	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/23/2023	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	69.9	10.0	03/23/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	48.2	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	129	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	150	% 49.1-14	8						

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Celeg & Keene



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/22/2023 Sampling Date: 03/22/2023

Reported: 03/23/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: WSW - 9 (H231323-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.04	102	2.00	0.305	
Toluene*	<0.050	0.050	03/22/2023	ND	2.07	103	2.00	0.518	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.16	108	2.00	0.331	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.63	111	6.00	0.172	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/23/2023	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	128	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	143	% 49.1-14	18						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/22/2023 Sampling Date: 03/22/2023

Reported: 03/23/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MALJAMAR, NM

ma/ka

Sample ID: FS - 10 (H231323-04)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.04	102	2.00	0.305	
Toluene*	<0.050	0.050	03/22/2023	ND	2.07	103	2.00	0.518	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.16	108	2.00	0.331	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.63	111	6.00	0.172	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/23/2023	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	39.7	10.0	03/23/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	27.5	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	134	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	154	% 49.1-14	8						

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Celeg & Keene



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 03/22/2023 Sampling Date: 03/22/2023

Reported: 03/23/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker 212C - HN - 02235

Project Location: MALJAMAR, NM

Sample ID: ESW - 10 (H231323-05)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.04	102	2.00	0.305	
Toluene*	<0.050	0.050	03/22/2023	ND	2.07	103	2.00	0.518	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.16	108	2.00	0.331	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.63	111	6.00	0.172	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/23/2023	ND	400	100	400	7.69	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	96.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/22/2023 Sampling Date: 03/22/2023

Reported: 03/23/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MALJAMAR, NM

ma/ka

Sample ID: WSW - 10 (H231323-06)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.04	102	2.00	0.305	
Toluene*	<0.050	0.050	03/22/2023	ND	2.07	103	2.00	0.518	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.16	108	2.00	0.331	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.63	111	6.00	0.172	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/23/2023	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	121	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	135	% 49.1-14	8						

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Celey D. Kreene



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/22/2023 Sampling Date: 03/22/2023

Reported: 03/23/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MALJAMAR, NM

ma/ka

Sample ID: ESW - 11 (H231323-07)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.04	102	2.00	0.305	
Toluene*	<0.050	0.050	03/22/2023	ND	2.07	103	2.00	0.518	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.16	108	2.00	0.331	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.63	111	6.00	0.172	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/23/2023	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	131	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	148	% 49.1-14	8						

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Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/22/2023 Sampling Date: 03/22/2023

Reported: 03/23/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: WSW - 11 (H231323-08)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.04	102	2.00	0.305	
Toluene*	<0.050	0.050	03/22/2023	ND	2.07	103	2.00	0.518	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.16	108	2.00	0.331	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.63	111	6.00	0.172	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/23/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	132	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	148	% 49.1-14	8						

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Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/22/2023 Sampling Date: 03/22/2023

Reported: 03/23/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MALJAMAR, NM

ma/ka

Sample ID: ESW - 12 (H231323-09)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.04	102	2.00	0.305	
Toluene*	<0.050	0.050	03/22/2023	ND	2.07	103	2.00	0.518	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.16	108	2.00	0.331	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.63	111	6.00	0.172	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/23/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	128	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	143	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/22/2023 Sampling Date: 03/22/2023

Reported: 03/23/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: WSW - 12 (H231323-10)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.04	102	2.00	0.305	
Toluene*	<0.050	0.050	03/22/2023	ND	2.07	103	2.00	0.518	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.16	108	2.00	0.331	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.63	111	6.00	0.172	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/23/2023	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	221	10.0	03/23/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	172	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	134	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	163	% 49.1-14	8						

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Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/22/2023 Sampling Date: 03/22/2023

Reported: 03/23/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MALJAMAR, NM

ma/ka

Sample ID: ESW - 13 (H231323-11)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.04	102	2.00	0.305	
Toluene*	<0.050	0.050	03/22/2023	ND	2.07	103	2.00	0.518	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.16	108	2.00	0.331	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.63	111	6.00	0.172	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/23/2023	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	128	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	144	% 49.1-14	8						

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Celey D. Keene



03/22/2023

Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 03/22/2023 Sampling Date:

Reported: 03/23/2023 Sampling Type: Soil

Fax To:

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: WSW - 13 (H231323-12)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.04	102	2.00	0.305	
Toluene*	<0.050	0.050	03/22/2023	ND	2.07	103	2.00	0.518	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.16	108	2.00	0.331	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.63	111	6.00	0.172	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/23/2023	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	161	10.0	03/23/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	106	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	127	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	159	% 49.1-14	8						

Cardinal Laboratories

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 03/22/2023 Sampling Date: 03/22/2023

Reported: 03/23/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact Project Number: Sample Received By: 212C - HN - 02235 Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: ESW - 14 (H231323-13)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	1.99	99.3	2.00	0.793	
Toluene*	<0.050	0.050	03/23/2023	ND	2.00	99.9	2.00	2.93	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.10	102	6.00	1.67	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/23/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	127 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	143 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celecy D. Keene



Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX (5/5) 393-24/6	5) 393-24/6	
Company Name: Total Total In	BILL TO	O ANALYSIS REQUEST
es lesul	ne P.O. #: DO119740	106 B
Nest	und Suite 1000 company: Tetra	lech inc.
	zip: 77042 Attn: Chuck	erhune
Phone #: 281-755-8965 Fax #:	#: Address:	000
-HN-02255	Project Owner: City:	_
	om State: Zip:	5 TV
m: Malicum	Phone #:	715 S1
Brody Lich	Fax#:	30
0.000	MATRIX PRESERV.	8
Lab I.D. Sample I.D.	G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX by Chloride
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	× ×	X X X 020181712
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SWSW-II	61 X X 3/22	
ESW	6 X X 3127253	
PLEASE NOTE: Liability and Dannages, Cardinal's liability and client's excli	PLEASE NOTE: Liability and Damages. Cardinal's labelity and client's exclusive remedy for any client arising whether based in contract or fort, shall be limited to the amount paid by the client for the	
service. In no event shall Cardinal be labble for incidental or consequental d strillates or successors arising out of or related to the performance of service	amapes, a counts income under the install Cardinal be liable for indental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries service. In no event shall Cardinal be liable for indental or consequental damages, including without limitation, business interruptions, loss of use or loss of profits incurred by client, its subsidiaries services are under the constant of the services of the constant of the constant of the services of the constant of	(EBC)
Lichtenhuged	Time: Received By:	Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address:
Relinquished By: Date:	Received By:	REMARKS:
(Circle One)	Observed Temp. °C // Sample Condition CHECKED BY: Cool_intact (Initials) Corrected Temp. °C // Tyes Tyes	Turnaround Time: Standard Bacteria (only) S Rush Cool Intact Thermometer ID #113 70 Pes Yes
Sampler - OPS - Bus - Omer:	1.1	Correction Factor -0.6°C CT NOCI No Corrected Temp. °C

CHAIN OF-CUSTODY AND ANALYSIS REQUEST



RILL TO ROBERT MANAPET CHARLES TRACKING ROBERT MANAPET CHARLES T			V .	No No	11		
TPH by 8015 M XXX Chloride by SM 4500 C1-B ANALY	ily) o	24 hour		Sample Condition Cool Intact Yes Yes	Observed Temp. °C /	ed By: (Circle One)	Delivere
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TPH by 8015 M XX Chloride by SM 4500 C1-B Wes I No Add Phone #		MARKS:	RE RE	May Ord Alle		dy Lithtenberg	Bro
XXX BIEX by 8021 B XXX TPH by 8015 M XXX Chloride by SM 4500 C1-B	Phone #: nail address:	rbal Result: ☐ Yes ☐ No Add'l P Results are emailed. Please provide Ema	AIII	Received By:	Date: R	uccessors arising out of or related to the performance and By:	Relinqu
XXX TPH by 8015 M XXX Chloride by SM 4500 C1-B			shall be limited to the amount paid by the ad by Cardinal within 30 days after comy se, or loss of profits incurred by client, it is non any of the above stated reasons.	aim arising whether based in contract or tort, a med walved unless made in writing and receive lout limitation, business interruptions, loss of u	and client's exclusive remedy for any cli other cause whatsoever shall be deen consequental damages, including with	TE: Liability and Damages. Cardinal's liability a claims including those for negligence and eny o event shall Cardinal be liable for incidental or	PLEASE NOT inalyses. All o envice. In no
Tetratech Inc Charles Tethune State: TX Zip: 77242 Adm: Muchtahinc TSS-8965 Fax #: -HN-62235 Project Owner: -HN-62235 Proj							
Charles Texture Charles Texture Charles Texture State: TX Zip: 7754Z Attn://AvvkTexture Address: TXS_80/S Fax #: Address: Address: City: State: Zip: 7754Z Attn://AvvkTexture Address: City: State: Zip: Phone #: Prophy Lightwhence GROUNDWATER WASTEWATER Soil GROUNDWATER WASTEWATER Soil SLUDGE OTHER: ACID/BASE: X Soil SLUDGE OTHER: ACID/BASE: X SIZZIZI 1425 X X SIZZIZI 1425 X X SIZZIZI 1500 ANALTSIS A							
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Charles Tethune Charles Tethune Charles Tethune Charles Tethune State: Typ: 77042 State: Typ: 77042 Attn: Multiplication Sample I.D. ANALYSIS Phone #: Phone #: Phone #: Phone #: Soil OIL OIL OITHER: ACID/BASE: ICE / COOL SAMPLING SAM		25 X X X	X 3/2/25 14	-	6	WSW-13	
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Tetratech, Inc Charles teshune Charles teshune Charles teshune Charles teshune State: TX Zip: 77642 Attn: (hw/k Telhune -755-8965 Fax #: -HN-02235 Project Owner: MA 2c Remediation Matrix Preserv. Sampling Phone #: Phone #: Fax #: Phone #: Pho		Y	1	RS TER	C)OMP		
Tetratech, Inc Charles Texhune Charles Texhune Charles Texhune Charles Texhune State: TX zip: 7704Z Attn: (hurk Texhune -755-8965 Fax#: -HN-62235 Project Owner: MA 2c Remediation Majannar, NM Phone #: Phone #: Fax #: Fax #: Phone #:		80	ESERV.		Ten Books	+ MODICE	FOR LAB US
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Suite 1000 Company: TetraTuh, Inc. X Zip: 77642 Attn: Muck Telhone Address: City: State: Zip:		V	#	Phor	Medical for 1	Name: Inch or Icely	roject N
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	- 1		BILL TO		Inc	_	ompany



March 24, 2023

CHUCK TERHUNE
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: MCA 2C REMEDIATION

Enclosed are the results of analyses for samples received by the laboratory on 03/23/23 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Wite South

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/23/2023 Sampling Date: 03/23/2023

Reported: 03/24/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: WSW - 14 (H231345-01)

Result <0.050 <0.050 <0.050 <0.050 <0.150 <0.300	Reporting Limit 0.050 0.050 0.050 0.150 0.300	Analyzed 03/23/2023 03/23/2023 03/23/2023 03/23/2023 03/23/2023	Method Blank ND ND ND ND ND ND ND	BS 2.02 2.05 2.15 6.63	% Recovery 101 103 108 110	True Value QC 2.00 2.00 2.00 2.00 6.00	RPD 0.940 1.47 1.87 2.53	Qualifier
<0.050 <0.050 <0.150 <0.300	0.050 0.050 0.150 0.300	03/23/2023 03/23/2023 03/23/2023	ND ND ND	2.05 2.15	103 108	2.00 2.00	1.47 1.87	
<0.050 <0.150 <0.300	0.050 0.150 0.300	03/23/2023	ND ND	2.15	108	2.00	1.87	
<0.150 <0.300	0.150 0.300	03/23/2023	ND					
<0.300	0.300			6.63	110	6.00	2.53	
		03/23/2023	ND					
106 9	0/ ₂ 71 5 12							
	/0 /1.3-13	4						
mg/	kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
160	16.0	03/24/2023	ND	416	104	400	7.41	
mg/	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	03/24/2023	ND	168	84.0	200	3.23	
511	10.0	03/24/2023	ND	173	86.6	200	2.04	
281	10.0	03/24/2023	ND					
101 9	% 48.2-13	4						
132 9	% 49.1-14	8						
	mg/ Result 160 mg/ Result <10.0 511 281	mg/kg Result Reporting Limit 160 16.0 mg/kg Result Reporting Limit <10.0 10.0 511 10.0 281 10.0 101 % 48.2-13	mg/kg Analyzed Result Reporting Limit Analyzed 160 16.0 03/24/2023 Manalyzed Result Reporting Limit Analyzed <10.0	mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank 160 16.0 03/24/2023 ND Result Reporting Limit Analyzed Method Blank <10.0	106 % 71.5-134 mg/kg Analyzed By: AC Result Reporting Limit Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0	106 % 71.5-134 mg/kg Analyzed By: AC Result Reporting Limit Analyzed ND 416 104 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	71.5-134 mg/kg Analyzed By: AC Result Reporting Limit Analyzed Nethod Blank BS % Recovery True Value QC 160 16.0 03/24/2023 ND 416 104 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0 10.0 03/24/2023 ND 168 84.0 200	71.5-134 mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 160 16.0 03/24/2023 ND 416 104 400 7.41 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0 10.0 03/24/2023 ND 168 84.0 200 3.23

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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/23/2023 Sampling Date: 03/23/2023

Reported: 03/24/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MALJAMAR, NM

ma/ka

Sample ID: FS - 14 (H231345-02)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	139	10.0	03/24/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	112	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	114	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	132	% 49.1-14	8						

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Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/23/2023 Sampling Date: 03/23/2023

Reported: 03/24/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MALJAMAR, NM

ma/ka

Sample ID: ESW - 15 (H231345-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 03/23/2023 Sampling Date: 03/23/2023

Reported: 03/24/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact Project Number: Tamara Oldaker 212C - HN - 02235 Sample Received By:

Project Location: MALJAMAR, NM

Sample ID: WSW - 15 (H231345-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	50.6	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	31.4	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	90.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.2	% 49.1-14	8						

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Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/23/2023 Sampling Date: 03/23/2023

Reported: 03/24/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MALJAMAR, NM

ma/ka

Sample ID: FS - 15 (H231345-05)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	36.6	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	22.9	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	95.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.3	% 49.1-14	8						

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Me Sough



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/23/2023 Sampling Date: 03/23/2023

Reported: 03/24/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MALJAMAR, NM

ma/ka

Sample ID: ESW - 16 (H231345-06)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Wite Sough



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/23/2023 Sampling Date: 03/23/2023

Reported: 03/24/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MALJAMAR, NM

ma/ka

Sample ID: WSW - 16 (H231345-07)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	79.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.6	% 49.1-14	8						

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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 03/23/2023 Sampling Date: 03/23/2023

Reported: 03/24/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact Project Number: Sample Received By: 212C - HN - 02235 Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: ESW - 17 (H231345-08)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	93.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.0	% 49.1-14	8						

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With Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/23/2023 Sampling Date: 03/23/2023

Reported: 03/24/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MALJAMAR, NM

ma/ka

Sample ID: FS - 16 (H231345-09)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	29.8	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	13.2	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	74.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.4	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 03/23/2023 Sampling Date: 03/23/2023

Reported: 03/24/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker 212C - HN - 02235

Project Location: MALJAMAR, NM

Sample ID: WSW - 17 (H231345-10)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	89.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.4	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 03/23/2023 Sampling Date: 03/23/2023

Reported: 03/24/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: ESW - 18 (H231345-11)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	72.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.4	% 49.1-14	8						

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Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/23/2023 Sampling Date: 03/23/2023

Reported: 03/24/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MALJAMAR, NM

ma/ka

Sample ID: WSW - 18 (H231345-12)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	70.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.1	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 03/23/2023 Sampling Date: 03/23/2023

Reported: 03/24/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: ESW - 19 (H231345-13)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	35.9	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	21.9	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	76.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.9	% 49.1-14	8						

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Will Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/23/2023 Sampling Date: 03/23/2023

Reported: 03/24/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MALJAMAR, NM

ma/ka

Sample ID: FS - 18 (H231345-14)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	89.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.1	% 49.1-14	8						

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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/23/2023 Sampling Date: 03/23/2023

Reported: 03/24/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MALJAMAR, NM

ma/ka

Sample ID: WSW - 19 (H231345-15)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	73.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.4	% 49.1-14	8						

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Wite Sough



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/23/2023 Sampling Date: 03/23/2023

Reported: 03/24/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MALJAMAR, NM

ma/ka

Sample ID: ESW - 20 (H231345-16)

RTFY 8021R

BIEX 8021B	mg,	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	96.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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Wite Sough



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 03/23/2023 Sampling Date: 03/23/2023

Reported: 03/24/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact Project Number: Sample Received By: 212C - HN - 02235 Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: FS - 19 (H231345-17)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/24/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	74.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.2	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 03/23/2023 Sampling Date: 03/23/2023

Reported: 03/24/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: WSW - 20 (H231345-18)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/24/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/24/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	80.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.7	% 49.1-14	8						

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Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/23/2023 Sampling Date: 03/23/2023

Reported: 03/24/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MALJAMAR, NM

ma/ka

Sample ID: ESW - 21 (H231345-19)

RTFY 8021R

B1EX 8021B	mg,	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.04	102	2.00	1.61	
Toluene*	<0.050	0.050	03/24/2023	ND	2.04	102	2.00	1.16	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.12	106	2.00	1.46	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.56	109	6.00	1.71	
Total BTEX	<0.300	0.300	03/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	03/24/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS				1.61 1.16 1.46 1.71	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	99.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Wite Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Will Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX (575) 393-2476

Address: 1500 City West Box	Boulevard Suite 1000 State: 1x Zip: 77042	Company: 12th lesty	M.	
Address: 1500 City West Bou	X, S	1 00	PK.	
city: Houston	X			
1		ш		
Phone #: 681-755-8965	Fax#:	Address:	0	
	Project Owner:	City:	561	
Project Name: MCB 7/ Remedication	ation	State: Zip:	M	
2	٥	Phone #:		
rocky Ltc	PANINCS	Fax #:	10	
	MATRIX	PRESERV. SAMPLING	80	
	ERS		by by	
H23/345	(G)RAB OR # CONTAINE GROUNDW WASTEWAT SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	BTEX TPH Chlori	
1 msm-14	X 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	X 3/13/13 0730	0730 X X X	
2 15-14	× ×	X 3/13/130760	0750 X X X	
3 ESW-15	K X	X 3/13/13 0800	2800 X X X	
4 M2M-12	××	X 3/23/25 080S	2080S X X X	
6 ESIN-110	5	X 3/23/23 0415	MIS XXX	
911-MSW C	6 1 X	X, 3/23/23 (XXX OZPO	
L1-MS3 8	6 · ×	X 3/23/23 (0925 X X X	
91-54 6	(5)	-	N X X COO	
10 WSW 3/23/23/10/25 X PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within 30 days after completion of the applicable	(\$ exclusive remedy for any claim arising whether based in contract use whatsoever shall be deemed walved unless made in writing any	tor tort, shall be limited to the amount paid be not received by Cardinal within 30 days after or	ty the client for the completion of the applicable	
affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Verhal Results Property Pr	ors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based to the performance of services hereunder by Cardinal, regardless of whether such claim is based to the performance of services hereunder by Cardinal, regardless of whether such claim is based to the performance of services hereunder by Cardinal, regardless of whether such claim is based to the performance of services hereunder by Cardinal, regardless of whether such claim is based to the performance of services hereunder by Cardinal, regardless of whether such claim is based to the performance of services hereunder by Cardinal, regardless of whether such claim is based to the performance of services hereunder by Cardinal, regardless of whether such claim is based to the performance of services hereunder by Cardinal, regardless of whether such claim is based to the performance of the perfo	n is based upon any of the above stated reas	it: □ Yes □ No	Add'l Phone #:
Relinquished By:	3/23/23 Received by.	11/100	emailed. Please prov	de Email address:
Brody Lichtenberger	11	Main 2		
Relinquished By:	Date: Received By:		REMARKS:	
Delivered By: (Circle One) Obs	Observed Temp. °C 3,9 Sample Condition	CHECKED BY:	Turnaround Time: Standard Rush	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Other: Cor	Corrected Temp. °C	8	Thermometer ID #113 7/1	☐Yes ☐ Yes

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST





March 27, 2023

CHUCK TERHUNE
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: MCA 2C REMEDIATION

Enclosed are the results of analyses for samples received by the laboratory on 03/24/23 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Tamara Oldaker

Sample Received By:

Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/24/2023 Sampling Date: 03/24/2023 Reported: 03/27/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact

Project Location: MALJAMAR, NM

212C - HN - 02235

Sample ID: WSW - 21 (H231366-01)

Project Number:

BTEX 8021B	mg,	/kg	Analyze	d By: JH				RPD 5.01 5.11 5.03 5.39 RPD 7.41 RPD 8.81 9.33	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.07	103	2.00	5.01	
Toluene*	<0.050	0.050	03/24/2023	ND	2.08	104	2.00	5.11	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	5.03	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.70	112	6.00	5.39	
Total BTEX	<0.300	0.300	03/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					
Surrogate: 1-Chlorooctane	96.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/24/2023 Sampling Date: 03/24/2023

Reported: 03/27/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MALJAMAR, NM

mg/kg

Sample ID: SSW - 1 (H231366-02)

BTEX 8021B

	<u> </u>			• •					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.07	103	2.00	5.01	
Toluene*	<0.050	0.050	03/24/2023	ND	2.08	104	2.00	5.11	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	5.03	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.70	112	6.00	5.39	
Total BTEX	<0.300	0.300	03/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/24/2023 Sampling Date: 03/24/2023

Reported: 03/27/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MALJAMAR, NM

ma/ka

Sample ID: SSW - 2 (H231366-03)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.07	103	2.00	5.01	
Toluene*	<0.050	0.050	03/24/2023	ND	2.08	104	2.00	5.11	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	5.03	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.70	112	6.00	5.39	
Total BTEX	<0.300	0.300	03/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	ed By: MS				5.01 5.11 5.03 5.39	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/24/2023 Sampling Date: 03/24/2023

Reported: 03/27/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MALJAMAR, NM

ma/ka

Sample ID: SSW - 3 (H231366-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.07	103	2.00	5.01	
Toluene*	<0.050	0.050	03/24/2023	ND	2.08	104	2.00	5.11	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	5.03	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.70	112	6.00	5.39	
Total BTEX	<0.300	0.300	03/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	10.9	10.0	03/25/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/24/2023 Sampling Date: 03/24/2023

Reported: 03/27/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MALJAMAR, NM

ma/ka

Sample ID: SSW - 4 (H231366-05)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.07	103	2.00	5.01	
Toluene*	<0.050	0.050	03/24/2023	ND	2.08	104	2.00	5.11	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	5.03	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.70	112	6.00	5.39	
Total BTEX	<0.300	0.300	03/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS				5.01 5.11 5.03 5.39	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/24/2023 Sampling Date: 03/24/2023

Reported: 03/27/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MALJAMAR, NM

mg/kg

Sample ID: SSW - 5 (H231366-06)

BTEX 8021B

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.15	107	2.00	11.6	
Toluene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.25	112	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.90	115	6.00	12.3	
Total BTEX	<0.300	0.300	03/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					
Surrogate: 1-Chlorooctane	99.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/24/2023 Sampling Date: 03/24/2023

Reported: 03/27/2023 Sampling Type: Soil
Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact

Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: FS - 20 (H231366-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.15	107	2.00	11.6	
Toluene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.25	112	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.90	115	6.00	12.3	
Total BTEX	<0.300	0.300	03/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	18						

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Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/24/2023 Sampling Date: 03/24/2023

Reported: 03/27/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MALJAMAR, NM

ma/ka

Sample ID: FS - 17 (H231366-08)

RTFY 8021R

B1EX 8021B	mg/	r Kg	Allalyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.15	107	2.00	11.6	
Toluene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.25	112	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.90	115	6.00	12.3	
Total BTEX	<0.300	0.300	03/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 03/24/2023 Sampling Date: 03/24/2023

Reported: 03/27/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C - HN - 02235 Sample Received By:

Project Location: MALJAMAR, NM

Sample ID: NSW - 2 (H231366-09)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.15	107	2.00	11.6	
Toluene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.25	112	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.90	115	6.00	12.3	
Total BTEX	<0.300	0.300	03/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					
Surrogate: 1-Chlorooctane	98.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 03/24/2023 Sampling Date: 03/24/2023

Reported: 03/27/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C - HN - 02235 Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: SSW - 6 (H231366-10)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.15	107	2.00	11.6	
Toluene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.25	112	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.90	115	6.00	12.3	
Total BTEX	<0.300	0.300	03/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					
Surrogate: 1-Chlorooctane	99.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/24/2023 Sampling Date: 03/24/2023

Reported: 03/27/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MALJAMAR, NM

Sample ID: ESW - 9 - A (H231366-11)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2023	ND	2.15	107	2.00	11.6	
Toluene*	<0.050	0.050	03/25/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.25	112	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	6.90	115	6.00	12.3	
Total BTEX	<0.300	0.300	03/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/24/2023 Sampling Date: 03/24/2023

Reported: 03/27/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MALJAMAR, NM

Sample ID: WSW - 12 - A (H231366-12)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2023	ND	2.15	107	2.00	11.6	
Toluene*	<0.050	0.050	03/25/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.25	112	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	6.90	115	6.00	12.3	
Total BTEX	<0.300	0.300	03/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	191	95.5	200	1.68	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	185	92.4	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					
Surrogate: 1-Chlorooctane	118	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130	% 49.1-14	8						

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Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/24/2023 Sampling Date: 03/24/2023

Reported: 03/27/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MALJAMAR, NM

Sample ID: WSW - 13 - A (H231366-13)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2023	ND	2.15	107	2.00	11.6	
Toluene*	<0.050	0.050	03/25/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.25	112	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	6.90	115	6.00	12.3	
Total BTEX	<0.300	0.300	03/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	191	95.5	200	1.68	
DRO >C10-C28*	108	10.0	03/27/2023	ND	185	92.4	200	3.11	
EXT DRO >C28-C36	71.9	10.0	03/27/2023	ND					
Surrogate: 1-Chlorooctane	99.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 03/24/2023 Sampling Date: 03/24/2023

Reported: 03/27/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact Project Number: Tamara Oldaker 212C - HN - 02235 Sample Received By:

Project Location: MALJAMAR, NM

Sample ID: FS - 1 - A (H231366-14)

BTEX 8021B	mg/	kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2023	ND	2.15	107	2.00	11.6	
Toluene*	<0.050	0.050	03/25/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.25	112	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	6.90	115	6.00	12.3	
Total BTEX	<0.300	0.300	03/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	191	95.5	200	1.68	
DRO >C10-C28*	56.4	10.0	03/27/2023	ND	185	92.4	200	3.11	
EXT DRO >C28-C36	65.6	10.0	03/27/2023	ND					
Surrogate: 1-Chlorooctane	101 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

 Received:
 03/24/2023
 Sampling Date:
 03/24/2023

 Reported:
 03/27/2023
 Sampling Type:
 Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: FS - 11 (H231366-15)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2023	ND	2.15	107	2.00	11.6	
Toluene*	<0.050	0.050	03/25/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.25	112	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	6.90	115	6.00	12.3	
Total BTEX	<0.300	0.300	03/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	191	95.5	200	1.68	
DRO >C10-C28*	65.9	10.0	03/27/2023	ND	185	92.4	200	3.11	
EXT DRO >C28-C36	70.0	10.0	03/27/2023	ND					
Surrogate: 1-Chlorooctane	93.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	18						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 03/24/2023 Sampling Date: 03/24/2023

Reported: 03/27/2023 Sampling Type: Soil

Fax To:

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MALJAMAR, NM

ma/ka

Sample ID: FS - 12 (H231366-16)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2023	ND	2.15	107	2.00	11.6	
Toluene*	<0.050	0.050	03/25/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.25	112	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	6.90	115	6.00	12.3	
Total BTEX	<0.300	0.300	03/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	191	95.5	200	1.68	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	185	92.4	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					
Surrogate: 1-Chlorooctane	97.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/24/2023 Sampling Date: 03/24/2023

Reported: 03/27/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: FS - 13 (H231366-17)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2023	ND	2.15	107	2.00	11.6	
Toluene*	<0.050	0.050	03/25/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.25	112	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	6.90	115	6.00	12.3	
Total BTEX	<0.300	0.300	03/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/27/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	191	95.5	200	1.68	
DRO >C10-C28*	39.9	10.0	03/27/2023	ND	185	92.4	200	3.11	
EXT DRO >C28-C36	43.1	10.0	03/27/2023	ND					
Surrogate: 1-Chlorooctane	93.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



	(5/5) 393-2326	FAX (5/5) 393-24/6	6																													
Company Name: Yetron Tex	Tetra tech	I True								13	1	311	BILL TO	hi	1						-	Ž	Ĺ	ANALYSIS		Q	REQUEST	TS				
Project Manager:		>							P.C	#	Z	1114	P.O. #: 761197406	6.		۲	\dashv	_	-B	_	_								-			
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city: Houston		State: TX	Zip:	1.	2406	27	,		Attı		3	Attn: Chuck	Texhore	MA	1		_		0										_			
Phone #: 281-	755-8965	Fax#:							Ado	Address:	S								50										_			
Project #: 7/70"	SELLO-NH.	S Project Owner:							City:							B			4										_			
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Sampler Name:	Broom Lica	6							Fax #:	#						21		D	1	1												
FOR LAB USE ONLY		d	MP.	,		MA	MATRIX			PRE	PRESERV	. 3	SAMPLING	LING	"	1 3 3		18	h		_											
Lab I.D.	Sample I.D.	le I.D.	(G)RAB,OR (C)O	# CONTAINERS GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	=	TIME	RTEV 1	DICX	TPH by	Chloride	Chorie												
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PLEASE NOTE: Liability and	SSW-6 Damages. Cardinar's liability.	10 SSW-6 PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remody for any claim snising whether based in contract or tort, shall be limited to the amount paid by the client for the another three for proficence and any other cause whatevower shall be deemed welled unless made in writing and to-chiend by Cardinal within 30 days after completion of the another three client for the	y claim a	rising w	hether	based ×	in con	ract o	r tort.	shall t	o limit	ed to th	3/24/23 09/0 the amount paid by the client thin 30 days after considering to	by the	client to	×	5		X		\vdash								\vdash			
service. In no event shall Ca affiliates or successors arisin	rdinal be liable for incidental or g out of or related to the perfor	service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	without lir srdinal, re	nitation	busine s of wh	ess inte	muptic such c	ns, lo	based	d upon	loss o	f profits	s incurred by cf boye stated rea	ent, its	y client, its subsidiarie reasons or otherwise	iries,							2		1		1					1
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Delivered By: (Circle One) Sampler - UPS - Bus - Other:	rcle One) 3us - Other:	Observed Temp. °C Corrected Temp. °C	34		Samp Genesal	- 19 \ m	Condition	es de	5		一一	(Initials)	34.	Turn	arou	Turnaround Time: Thermometer ID #1	me: #113	1	Standard Rush	dard			□ S &	cteri Vex	Bacteria (only) Cool Intact	nly)	Bacteria (only) Sample Condition	ample Condition Observed Temp. °C	ond ed Te	lition emp.	ຳ ດໍ	
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: D	ANALYSIS REQUEST SAMPLING BTEX by BOZIB TPH by BOISM Chloride by SM4500 CI-B
Sampler Name: Brody Lichtyn be	1	30 30 30 30 30
FOR LAB USE ONLY	MATRIX PRESERV.	y d
01	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TPH by
D	-681 61 X X 3/24/23	3/24/23 1035 X X X X X X X X X X X X X X X X X X X
14 F5-1-A	2 X	3/4/b3 1235 X X X X
17 15-12	×× ××	
PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exambjess. All claims including those for negligence and any other cause service. In no event shall Cardinal be liable for incidental or consequents	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remody for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	nt paid by the client for the sapticable of the applicable of the subsidiaries,
Relinquished By: Do Relinq	Received By: Date: Received By: Received By: Received By: Time: Received By:	Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #: All Results are emailed. Please provide Email address: REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: Correc	Observed Temp. °C O, 6 Cool Intact (Initials) Corrected Temp. °C I, 2 Pres Pres No No No	Turnaround Time: Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C Thermometer ID #113 24 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \



March 28, 2023

CHUCK TERHUNE
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: MCA 2C REMEDIATION

Enclosed are the results of analyses for samples received by the laboratory on 03/27/23 15:58.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 03/27/2023 Sampling Date: 03/27/2023

Reported: 03/28/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: FS - 14 - A (H231389-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	4.48	
Toluene*	<0.050	0.050	03/27/2023	ND	2.03	101	2.00	3.77	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.11	106	2.00	2.71	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.47	108	6.00	1.62	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/28/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	185	92.3	200	27.3	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	176	88.0	200	32.3	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	91.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 03/27/2023 Sampling Date: 03/27/2023

Reported: 03/28/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C - HN - 02235 Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: WSW - 14 - A (H231389-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	4.48	
Toluene*	<0.050	0.050	03/27/2023	ND	2.03	101	2.00	3.77	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.11	106	2.00	2.71	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.47	108	6.00	1.62	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/28/2023	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	185	92.3	200	27.3	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	176	88.0	200	32.3	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					
Surrogate: 1-Chlorooctane	89.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

(432) 682-3946

ma/ka

Received: 03/27/2023 Sampling Date: 03/27/2023

Reported: 03/28/2023 Sampling Type: Soil

Fax To:

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MALJAMAR, NM

Sample ID: ESW - 1 (H231389-03)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	4.48	
Toluene*	<0.050	0.050	03/27/2023	ND	2.03	101	2.00	3.77	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.11	106	2.00	2.71	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.47	108	6.00	1.62	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/28/2023	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	185	92.3	200	27.3	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	176	88.0	200	32.3	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/27/2023 Sampling Date: 03/27/2023

Reported: 03/28/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: NSW - 1 (H231389-04)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	4.48	
Toluene*	<0.050	0.050	03/27/2023	ND	2.03	101	2.00	3.77	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.11	106	2.00	2.71	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.47	108	6.00	1.62	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	03/28/2023	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	185	92.3	200	27.3	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	176	88.0	200	32.3	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					
Surrogate: 1-Chlorooctane	88.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.7	% 49.1-14	18						

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Celey D. Kreene



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

mg/kg

Received: 03/27/2023 Sampling Date: 03/27/2023

Reported: 03/28/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: MALJAMAR, NM

Sample ID: FS - 2 (H231389-05)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Allulyzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	4.48	
Toluene*	<0.050	0.050	03/27/2023	ND	2.03	101	2.00	3.77	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.11	106	2.00	2.71	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.47	108	6.00	1.62	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	03/28/2023	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	185	92.3	200	27.3	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	176	88.0	200	32.3	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					
Surrogate: 1-Chlorooctane	70.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.5	% 49.1-14	8						

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Celey D. Keine



Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

QR-04

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

The RPD for the BS/BSD was outside of historical limits.

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX (575) 393-2476	476			
Company Name: To trach lech line		BILL TO	ANA	ANALYSIS REQUEST
es te		404Lb1196:# :0.4		
+ Boulevard	Suite 1000	Company: Tetra Tech, Inc		
City: Houston State: TX	Zip: 77042	Attn: Chuck Terhone		
Phone #: 281 - 755 - 8965 Fax #:		Address:	C	
Project #: 212L-HN-82255 Project Owner:	ñ	City:	000	
Project Name: MCH 26 Remediction		State: Zip:	l	
Project Location: Mulicimes, 12M		Phone #:		
Sampler Name: Brown Lichtenburger		Fax #:	15	
		PRESERV. SAM	80	
Lab I.D. Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	BTEX by TPH by Chloride	
7 FS-14-A	××		X X X 0.001	
-	_	X 3/27/23 1210	X X X OIZI	
4 NSW-1	v.	X 3/21/23 1450	itso XXX	
SF5-2	\$ ·	X 3541521488) HSX XX	
PLEASE NOTE: Lability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses, All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service, in no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	any claim arising whether based in contract any claim arising whether based in writing an adeemed wailved unless made in writing an without limitation, business interruptions.	or fort, shall be limited to the amount pa d received by Cardinal within 30 days afti loss of use, or loss of profits incurred by	by the client for the applicable client, its subsidiaries,	
100	Received By:	CH WIN	Verbal Result: ☐ Yes ☐ No All Results are emailed. Please provi	Add'I Phone #: de Email address:
Brooky Lichtenhurgs Date:	Received By:	Straffsk	REMARKS:	
Delivered By: (Circle One) Observed Temp. °C 5, / Sampler - UPS - Bus - Other: Corrected Temp. °C 4, S	Sample Condition Cool Intact Pyes Pyes No No No	CHECKED BY: (Initials)	Turnaround Time: Standard Turnaround Time: Rush Thermometer ID #113 24 Nov s	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No Corrected Temp. °C



March 29, 2023

CHUCK TERHUNE
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: MCA 2C REMEDIATION

Enclosed are the results of analyses for samples received by the laboratory on 03/28/23 16:04.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keene

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/28/2023 Sampling Date: 03/28/2023

Reported: 03/29/2023 Sampling Type: Soil
Project Name: MCA 2C REMEDIATION Sampling Condition: Cool

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: T - 7 (H231416-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	2.04	102	2.00	0.999	
Toluene*	<0.050	0.050	03/29/2023	ND	2.06	103	2.00	0.716	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.14	107	2.00	0.404	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.52	109	6.00	2.17	
Total BTEX	<0.300	0.300	03/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	532	16.0	03/29/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2023	ND	169	84.5	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	190	94.8	200	3.29	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					
Surrogate: 1-Chlorooctane	99.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

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Celeg & Keine



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 03/28/2023 Sampling Date: 03/28/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact Project Number: Sample Received By: 212C - HN - 02235 Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: ESW - 9 - B (H231416-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	2.04	102	2.00	0.999	
Toluene*	<0.050	0.050	03/29/2023	ND	2.06	103	2.00	0.716	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.14	107	2.00	0.404	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.52	109	6.00	2.17	
Total BTEX	<0.300	0.300	03/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/29/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2023	ND	169	84.5	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	190	94.8	200	3.29	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/28/2023 Sampling Date: 03/28/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: MALJAMAR, NM

ma/ka

Sample ID: FS - 11 - A (H231416-03)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	2.04	102	2.00	0.999	
Toluene*	<0.050	0.050	03/29/2023	ND	2.06	103	2.00	0.716	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.14	107	2.00	0.404	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.52	109	6.00	2.17	
Total BTEX	<0.300	0.300	03/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/29/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2023	ND	169	84.5	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	190	94.8	200	3.29	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					
Surrogate: 1-Chlorooctane	99.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

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Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 03/28/2023 Sampling Date: 03/28/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact Project Number: Sample Received By: 212C - HN - 02235 Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: FS - 11 - N (H231416-04)

BTEX 8021B	mg	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	2.04	102	2.00	0.999	
Toluene*	<0.050	0.050	03/29/2023	ND	2.06	103	2.00	0.716	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.14	107	2.00	0.404	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.52	109	6.00	2.17	
Total BTEX	<0.300	0.300	03/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/29/2023	ND	432	108	400	0.00	
TPH 8015M	mg	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2023	ND	169	84.5	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	190	94.8	200	3.29	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					
Surrogate: 1-Chlorooctane	83.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celecy D. Keene



Analytical Results For:

TETRA TECH
CHUCK TERHUNE
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 03/28/2023 Sampling Date: 03/28/2023

Reported: 03/29/2023 Sampling Type: Soil

Project Name: MCA 2C REMEDIATION Sampling Condition: Cool & Intact
Project Number: 212C - HN - 02235 Sample Received By: Tamara Oldaker

Project Location: MALJAMAR, NM

Sample ID: WSW - 13 - B (H231416-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	2.04	102	2.00	0.999	
Toluene*	<0.050	0.050	03/29/2023	ND	2.06	103	2.00	0.716	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.14	107	2.00	0.404	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.52	109	6.00	2.17	
Total BTEX	<0.300	0.300	03/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/29/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2023	ND	169	84.5	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	190	94.8	200	3.29	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Observed Temp. °C

Time:

Corrected Temp. °C 3.2

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY:

Thermometer ID #113 Correction Factor -0.6°C Turnaround Time:

Standard

Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C

Yes Yes
Nc No Corrected Temp. °C

CHAIN OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Mamor			
Project Manager Lety Lech, Inc	BILL TO	ANALYSIS REQUEST	
Project Manager: Churles Terhune	P.O. # PO1197404	96	
px	Suite 1000 Company: Tetra 7	Tech, Inc. B	
	Zip: 77042 Attn: Chuck Te.		
Phone #: 281-755-8965 Fax #:			
Project #: 2120-HN-02235 Project Owner:		000	
Project Name: MCA ZC Remediation	State: Zip:	1	
Project Location: Mulyumar, NM	Phone #:		
Sampler Name: Brody Lichtenburger	Fax #:	15	
FOR LAB USE ONLY	ESERV.	30	
Lab I.D. Sample I.D.		EX by	
17-7	- ×	1 M 3 C X X X	1
2 ESW-9-B	67 1 X X 3/28/2	3/28/23 0840 X X X	
3 PS-11-A	611 X X 3/28/2	3/28/25 IIIS X X X	
4 F5-11-N	· · ×	$\times \times $	
S 105W-13-13	2/82/5 X X 1.53	3/28/25 NHO X, X, X	
EAST LOTE. LANS.			
LEASE, TWI 1E. Leasing and Damages, Cardinal's liability and client's exclusive renerby for any claim articity whether based in contract or bot, shall be limited to the amount paid by the client for the neighbor. All claims including those for regispence and any other cause whatsoever shall be deemed weved unless made in writing and received by Cardinal within 20 days after completion for the applicable envise. In no event shall Cardinal be liable for incidental or consequental damages, including without initiation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.	if any claim arising whether based in contract or tort, shall be limited to the amount p be deemed walved unless made in writing and received by Cardinal within 30 days a ling without limitation, business interruptions, loss of use, or loss of profits incurred by	aid by the client for the the compriseon of the applicable client, its subsidiaries.	İ
Relinquished By: Date: 1/2/1/2 Received By:	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:	
chenberge	S Million Alle Har	emailed. Please provi	
Relinquished By: Date:	Received By:	REMARKS:	

Site Remediation Closure Report
Maverick Permian, LLC
MCA 2C Injection Header Flange and Header East Line Releases
Incident IDs: nRM1930950727 and nAPP2117456525

May 16, 2023

APPENDIX E: PHOTOGRAPHIC DOCUMENTATION





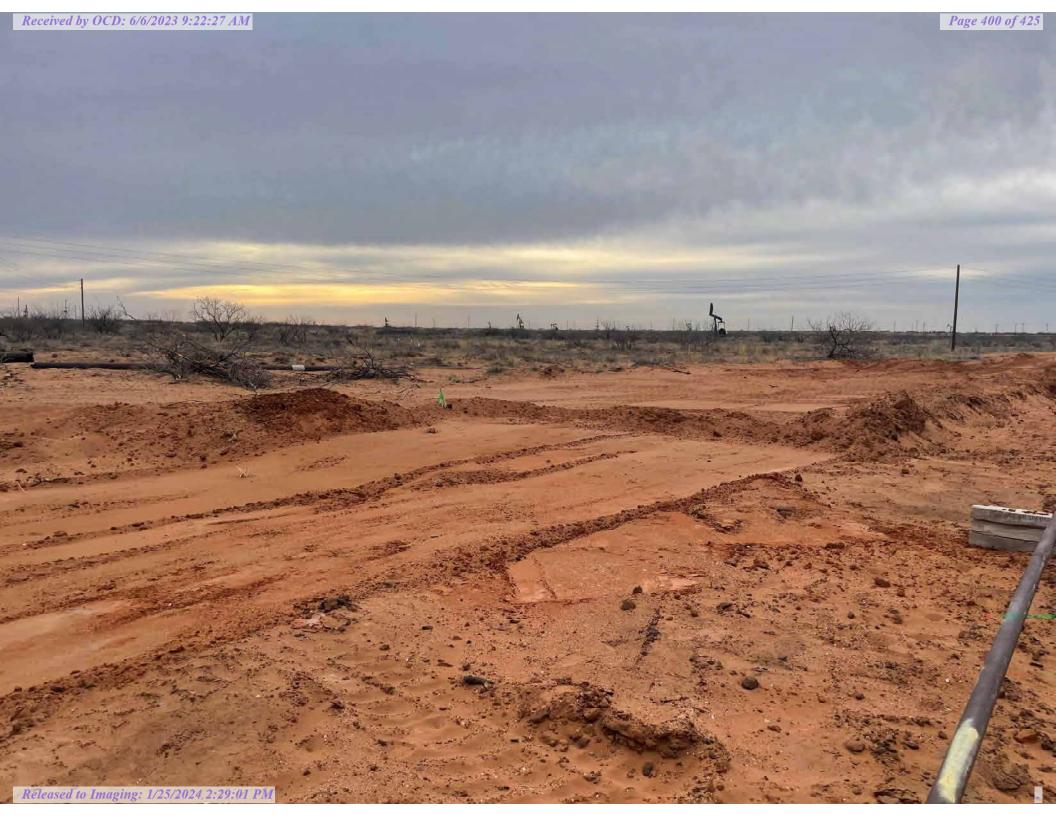


















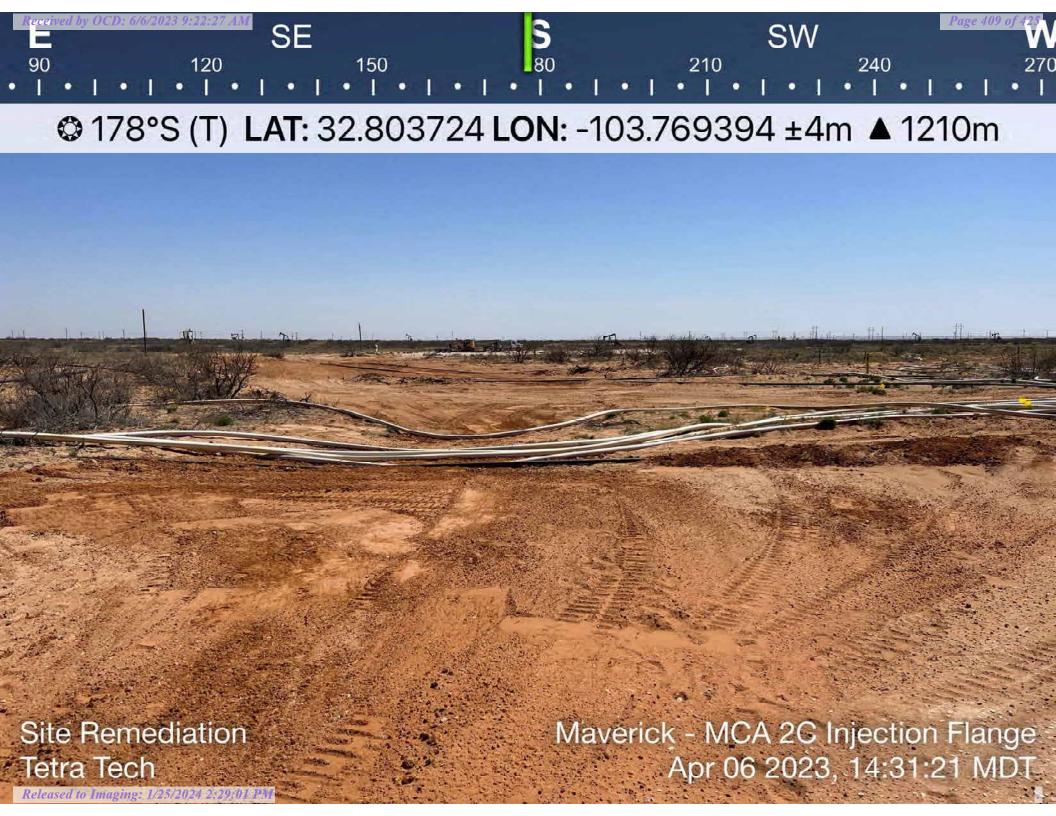
















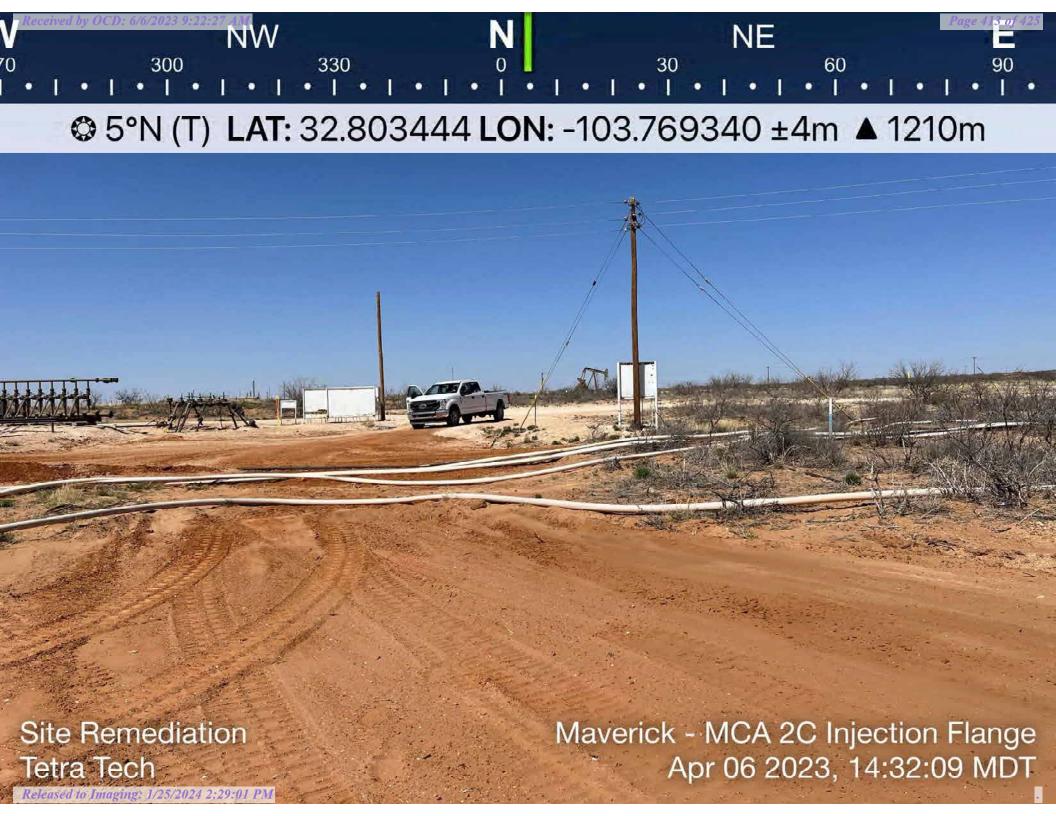


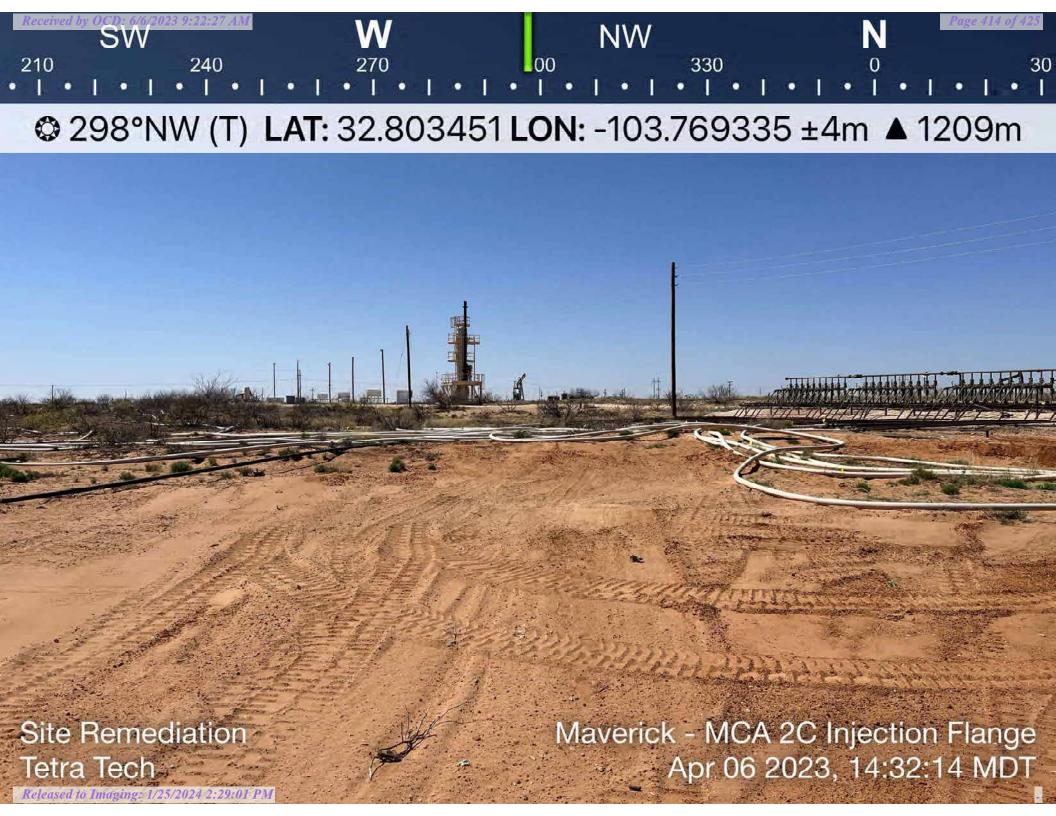


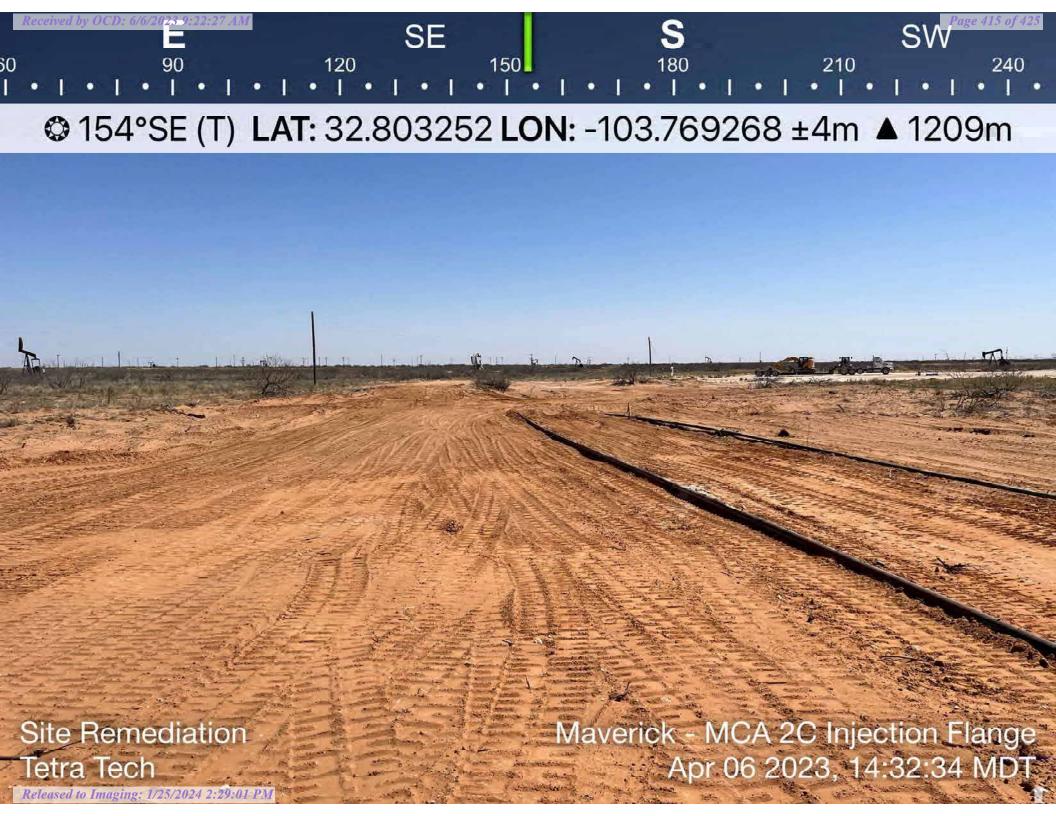
Site Remediation Tetra Tech

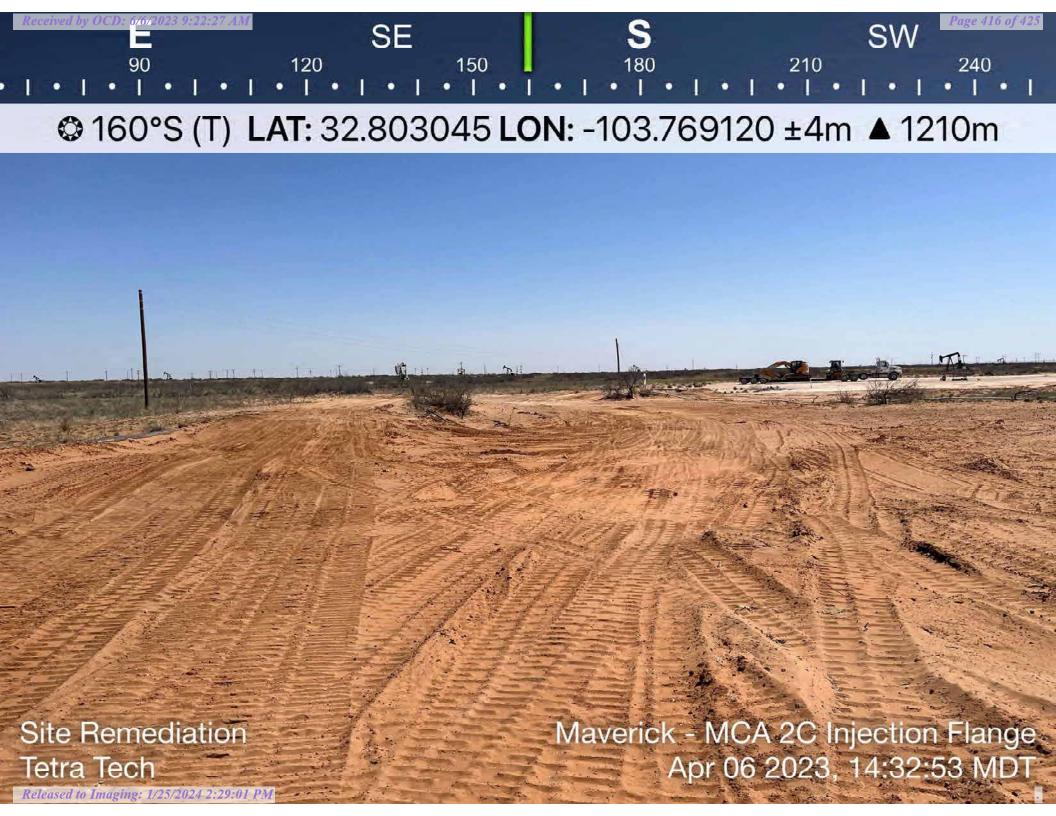
Released to Imaging: 1/25/2024 2:29:01 Pl

Maverick - MCA 2C Injection Flange Apr 06 2023, 14:31:54 MDT

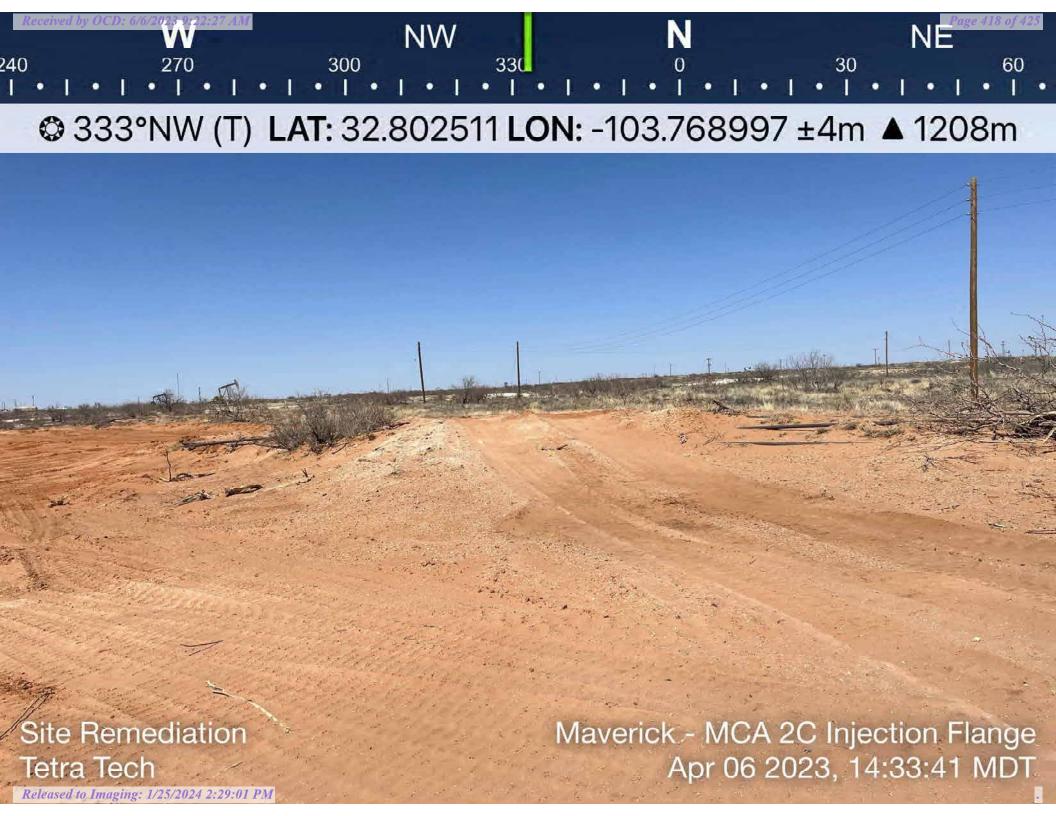




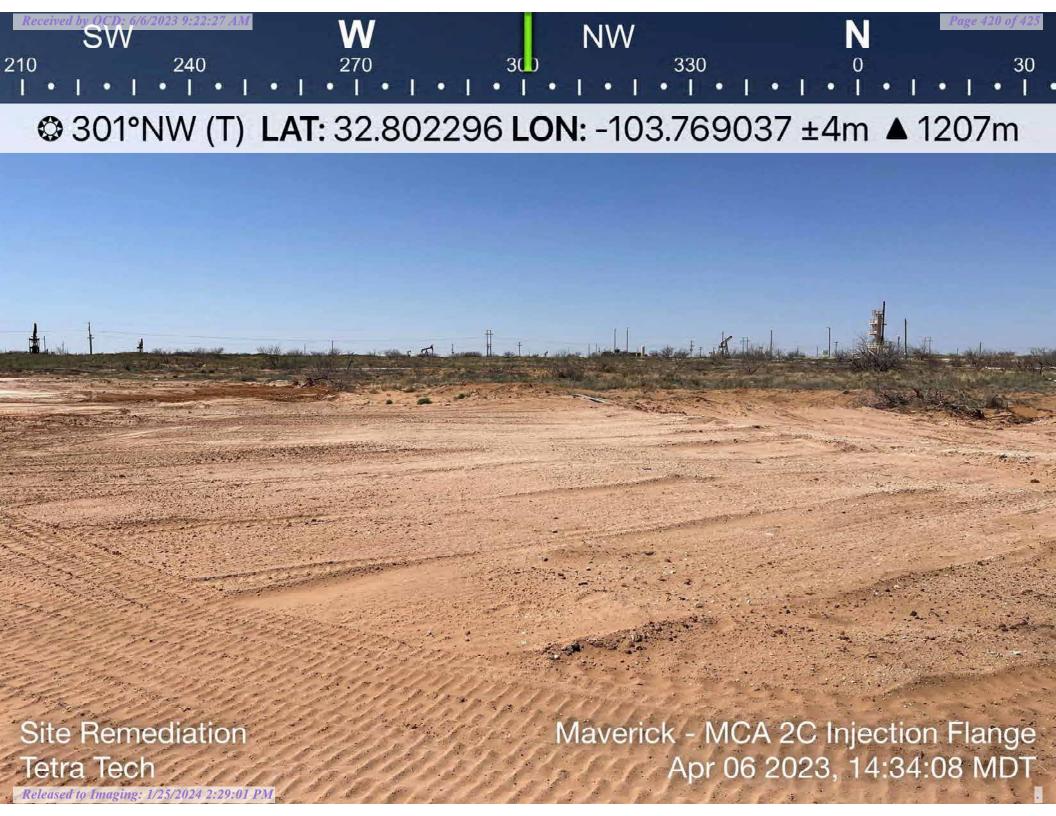


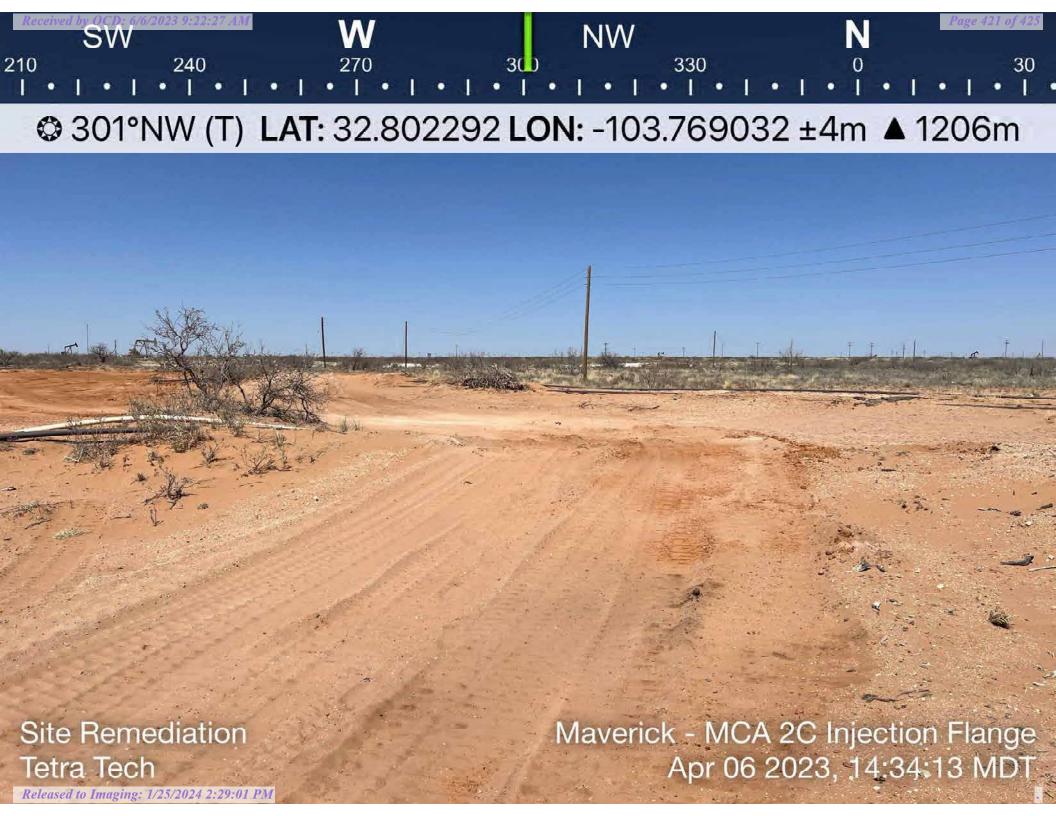














Site Remediation Closure Report
Maverick Permian, LLC
MCA 2C Injection Header Flange and Header East Line Releases
Incident IDs: nRM1930950727 and nAPP2117456525

May 16, 2023

APPENDIX F: NMSLO SEED MIXTURE DETAILS

NMSLO Seed Mix

Sandy (S)

SANDY (S) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX	
Grasses:				
Sand bluestem	Elida, VNS, So.	2.0	${f F}$	
Little bluestem	Cimarron, Pastura	3.0	${f F}$	
Black grama	VNS, Southern	1.0	D	
Sand dropseed	VNS, Southern	4.0	\mathbf{S}	
Plains bristlegrass	VNS, Southern	2.0	\mathbf{D}	
		1 1/1/2		
Forbs:	200000		3	
Firewheel (Gaillardia)	VNS, Southern	1.0	D	
Annual Sunflower	VNS, Southern	1.0	D	
		700 C	B	
Shrubs:		90.	8	
Fourwing Saltbush	VNS, Southern	1.0	F	
W	T Miga T		O. B	
Total PLS/acre 16.0				
NO			ST B	

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

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



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

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

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

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

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

CONDITIONS

Action 224316

CONDITIONS

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	224316
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Create	Condition	Condition Date
scw	None	1/25/2024