Form C-141
Page 5

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | NAPP2110534368 |
| District RP | |
| Facility ID | |
| Application ID | |

# Remediation Plan

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

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

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

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

☐ Extents of contamination must be fully delineated.

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

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

Printed Name: Jenni Fortunato  Title: Program Manager, Remediation

Signature:  Date: 12/22/21

email: jenni.fortunato@cop.com  Telephone: 832-486-2477

**OCD Only**

Received by: Chad Hensley  Date: 02/02/2022

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

Signature:  Date: 02/02/2022

TETRA TECH

January 11, 2022

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

**Re: Release Characterization and Remediation Work Plan**
**ConocoPhillips**
**Leamex 9 Flowline Release**
**Unit Letter O, Section 16, Township 17 South, Range 33 East**
**Lea County, New Mexico**
**Incident ID# nAPP2110534368**

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to assess a release that occurred due to a flowline leak approximately 40 yards west of the Leamex #009 well (API #30-025-01435). The release footprint is located in Public Land Survey System (PLSS) Unit Letter O, Section 16, Township 17 South, Range 33 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.829188°, -103.666613°, as shown on Figures 1 and 2.

## BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), the release was discovered from a flowline from the Leamex #009 well on April 5, 2021. Approximately 7.7 barrels (bbls) of produced water and 3.1 bbls of oil were released, of which 2 bbls of produced water and no oil were reported recovered. The New Mexico Oil Conservation Division (NMOCD) received the C-141 report form for the release on May 7, 2021. The release was subsequently assigned the Incident ID for this release is nAPP2110534368.

## SITE CHARACTERIZATION

A site characterization was performed and no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.09 New Mexico Administrative Code (NMAC). The Site is in an area of low karst potential. According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells located within an 800-meter (approximately ½-mile) radius of the release location. The radius search was expanded to 1250 meters (approximately ¾-mile), indicating two water wells present with the average depth to ground water at 190 feet (ft) below ground surface (bgs). The site characterization data is included in Appendix B.

The remediation action levels proposed for the site are largely dependent upon depth to groundwater. As such, the OCD focuses upon depth to water estimation. Thus, 19.15.11(A)(2) NMAC allows for various means of determining depth to groundwater.

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For this release, as the available water level information was from a well further than ½ mile away from the Site and the data was more than 25 years old, COP elected to drill a boring to depth for groundwater verification. On August 19, 2021, a licensed well drilling subcontractor was onsite to a drill a groundwater determination borehole to 55 feet bgs. The borehole was located just outside the reported release footprint. The borehole was dry upon completion, and soils were dry from surface to total depth. The depth to groundwater in the area was thus verified as greater than 55 feet bgs. The borehole was plugged with 3/8" bentonite chips on August 19, 2021. The borehole coordinates are 32.829285, -103.666524 and the boring location is indicated on Figure 6 as BH-1. The boring log (BH-1) is included in Appendix D.

## REGULATORY FRAMEWORK

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

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

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

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

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

## INITIAL RESPONSE AND SITE ASSESSMENT

In accordance with 19.15.29.8.B.(4) NMAC that states "the responsible party may commence remediation immediately after discovery of a release", ConocoPhillips elected to begin remediation of the impacted area In June 2021. Tetra Tech personnel conducted initial soil assessment and McNabb Partners conducted initial response activities on June 21, 2021. Eight (8) boring locations (H-1 through H-8) were used to collect surface soil samples around the perimeter of the reported release extent. Four (4) boring locations (OS-1 through OS-4) were used to collect soil samples within the reported overspray extent. After samples were collected in the overspray area, this area was treated with Micro-Blaze, a microbial formulation used for bioremediation of hydrocarbons and other organic compounds.

The footprint of the release was scraped to an approximate depth of 6 inches bgs in the southwestern portion, and to 1-foot bgs in the northeastern portion of the release extent to remove the visually impacted soils. Initial response areas are indicated on Figure 4. Approximately 30 cubic yards of impacted material were removed during the initial response activities. Copies of the waste manifests are included in Appendix F. Post-excavation, three (3) floor samples (FS-1 through FS-3) were collected from the interior of the remediated areas. Seven (7) sidewall samples (SW-1 through SW-7) were collected from the perimeter of the remediated area.

Thus, a total of twenty-two (22) samples were collected during the June 2021 activities and were submitted to Pace Analytical in Mount Juliet, Tennessee (Pace) to be analyzed for chloride via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8260B. The assessment and initial response

sampling locations are shown on Figures 4 and 5, respectively. A copy of the analytical laboratory report and chain-of-custody documentation is included in Appendix C.

## ADDITIONAL SITE ASSESSMENT

After a review of the collected data from the initial response, the release extent required additional characterization. In order to achieve horizontal and vertical delineation of the release extent, Tetra Tech personnel conducted additional soil sampling on August 19, 2021, on behalf of ConocoPhillips. A total of two (2) borings (BH-1 and BH-2) were installed with an air rotary drill rig to complete vertical delineation of the release. Boring location BH-2 was installed within the southwestern excavation. Due to rig access constraints, boring location BH-1 was installed immediately adjacent to the northeastern excavation, near the previously collected sidewall sample location SW-6. A total of three (3) borings (H-9 through H-11) were also installed with hand auger along the perimeter of the release extent. Based on that data, Tetra Tech returned to the Site on September 20, 2021 to collect two (2) additional hand auger samples (H-12 and H-13) in order to complete horizontal delineation of the release to the north. Boring logs, included as Appendix D, present soil descriptions, sample depths, and field screening data from the August 2021 assessment activities. Boring locations are shown in Figure 6.

A total of twenty-six (26) soil samples were collected from the seven (7) boring locations within and surrounding the release extent. These soil samples were sent to Pace to be analyzed for chloride via EPA, TPH, and BTEX. Copies of the analytical laboratory reports and chain-of-custody documentation are included in Appendix C.

## SUMMARY OF SAMPLING RESULTS

The analytical results associated with the June 2021 sampling event are summarized in Table 1. The analytical results associated with confirmation floor sample locations FS-1, FS-2, and FS-3 were above the reclamation requirements for chloride (600 mg/kg) and TPH (100 mg/kg). At confirmation sidewall locations SW-2, SW-3, SW-4, SW-6, and SW-7, the analytical results were above the reclamation requirements for TPH. Additionally, the analytical results associated with horizontal delineation locations H-1 and H-7 were above the reclamation requirements for TPH. Analytical results associated with the overspray sampling locations (OS-1 through OS-4) were below reclamation requirements.

Results from the August and September 2021 soil sampling events are summarized in Table 3. The analytical results associated with BH-1 and BH-2 sample locations provided vertical delineation. The analytical results from the samples collected from these locations were over applicable RRALs for chloride in the 0-1 foot interval below the existing excavation depth at BH-1, and over both the RRALs for chloride and TPH down to 4 feet bgs at BH-2. The results associated with the additional perimeter sample locations were above the reclamation requirements for TPH in the 0-1 foot interval at H-9 and down to 2 feet bgs at H-10. The analytical results associated with perimeter sample locations H-11, H-12, and H-13 were below Site RRALs for all constituents. Based on the results of the site assessment, this release is considered vertically and horizontally delineated.

## REMEDIATION WORK PLAN

Based on the analytical results from the assessment activities, ConocoPhillips proposes to remove the impacted material within and in the vicinity of the release extent as shown in Figure 7. Impacted soils will be excavated using heavy equipment (backhoes, hoe rams, and track hoes) to a maximum depth of 4 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation is below the reclamation requirements or the Site RRALs. Heavy equipment will come no more than 3 feet from any pressurized lines. Impacted soils within the vicinity of the surface and subsurface lines which intersect the release footprint will be dug by hand to the maximum extent practicable.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation bottom and sidewall samples will be collected for verification of remedial activities, and analyzed for TPH, BTEX, and chlorides. Once analytical results are received, NMOCD will be notified, and

the excavation will then be backfilled with clean material to surface grade. The estimated volume of material to be remediated is approximately 475 cubic yards.

## ALTERNATIVE CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, ConocoPhillips proposes the following alternative confirmation sampling plan to adhere with NMOCD requirements. The proposed confirmation sample locations are depicted in Figure 8. Seven (7) confirmation floor samples and seventeen (17) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 7,600 square feet.

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

## SITE RECLAMATION AND RESTORATION PLAN

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

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

## CONCLUSION

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

Sincerely,
**Tetra Tech, Inc.**

Christian M. Llull, P.G.
Program Manager

cc: Ms. Jenni Fortunato, RMR – ConocoPhillips

Received by OCD: 1/11/2022 8:46:36 PM




## LIST OF ATTACHMENTS

**Figures:**



**Tables:**



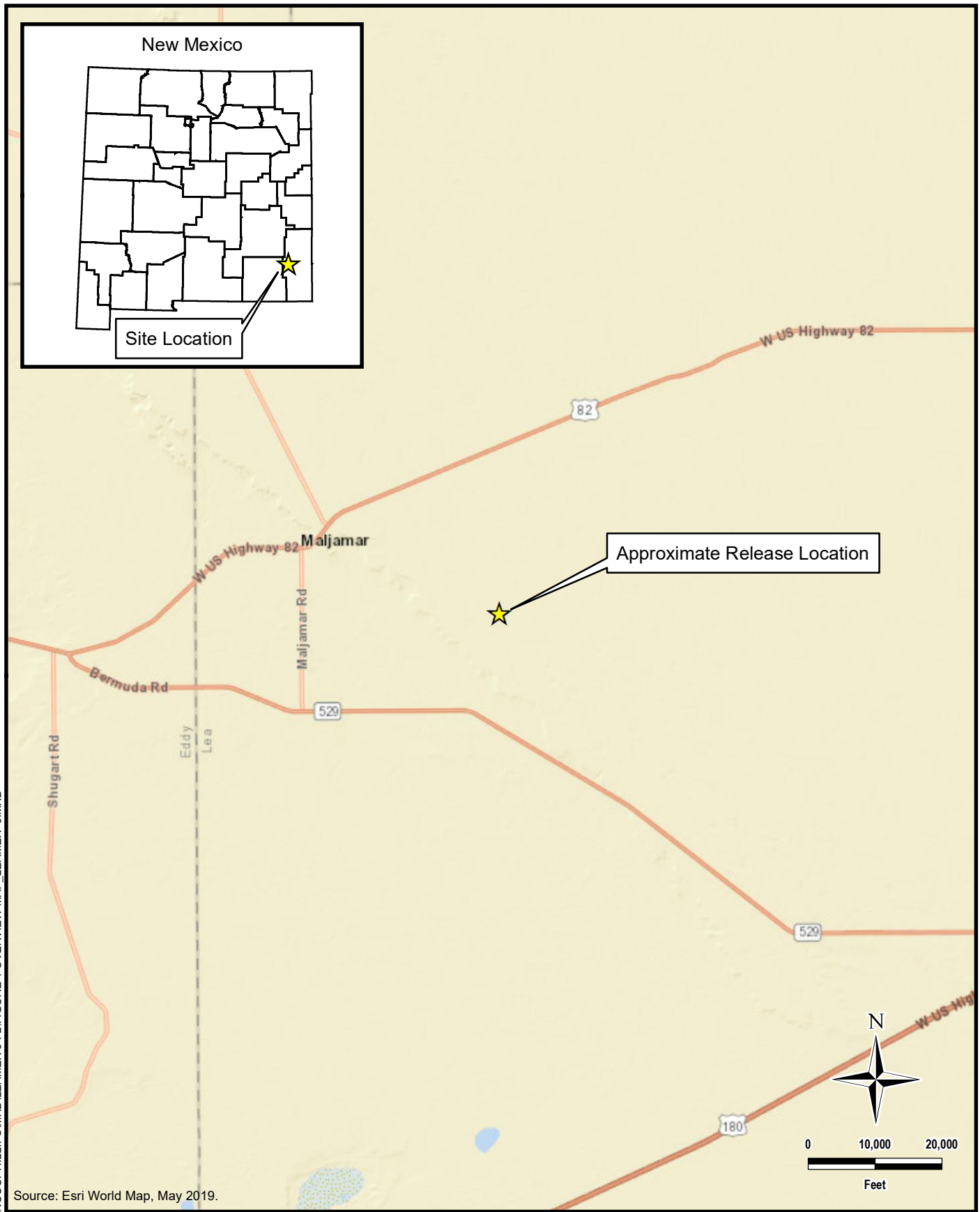
**Appendices:**





Released to Imaging: 2/2/2022 8:25:18 AM

# FIGURES




DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\LEAMEX 9 FL\FIGURE 1 OVERVIEW MAP_LEAMEX_9.MXD

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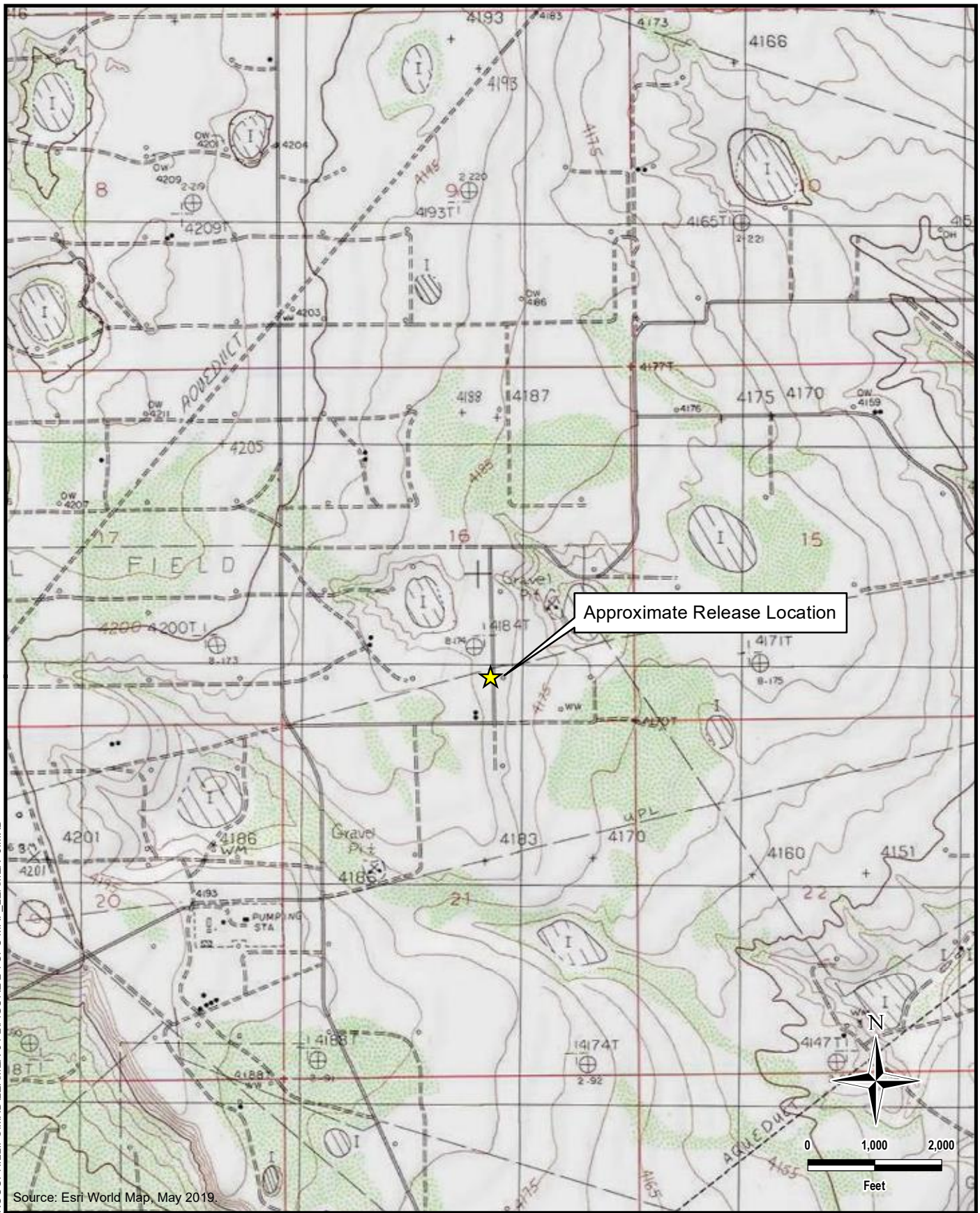
CONOCOPHILLIPS

NAPP2110534368
(32.829193°, -103.666538°)
LEA COUNTY, NEW MEXICO

**LEAMEX 9 FLOWLINE RELEASE**
**OVERVIEW MAP**

| | |
|---|---|
| PROJECT NO.: | 212C-MD-02533 |
| DATE: | JULY 06, 2021 |
| DESIGNED BY: | AAM |

Figure No.
**1**

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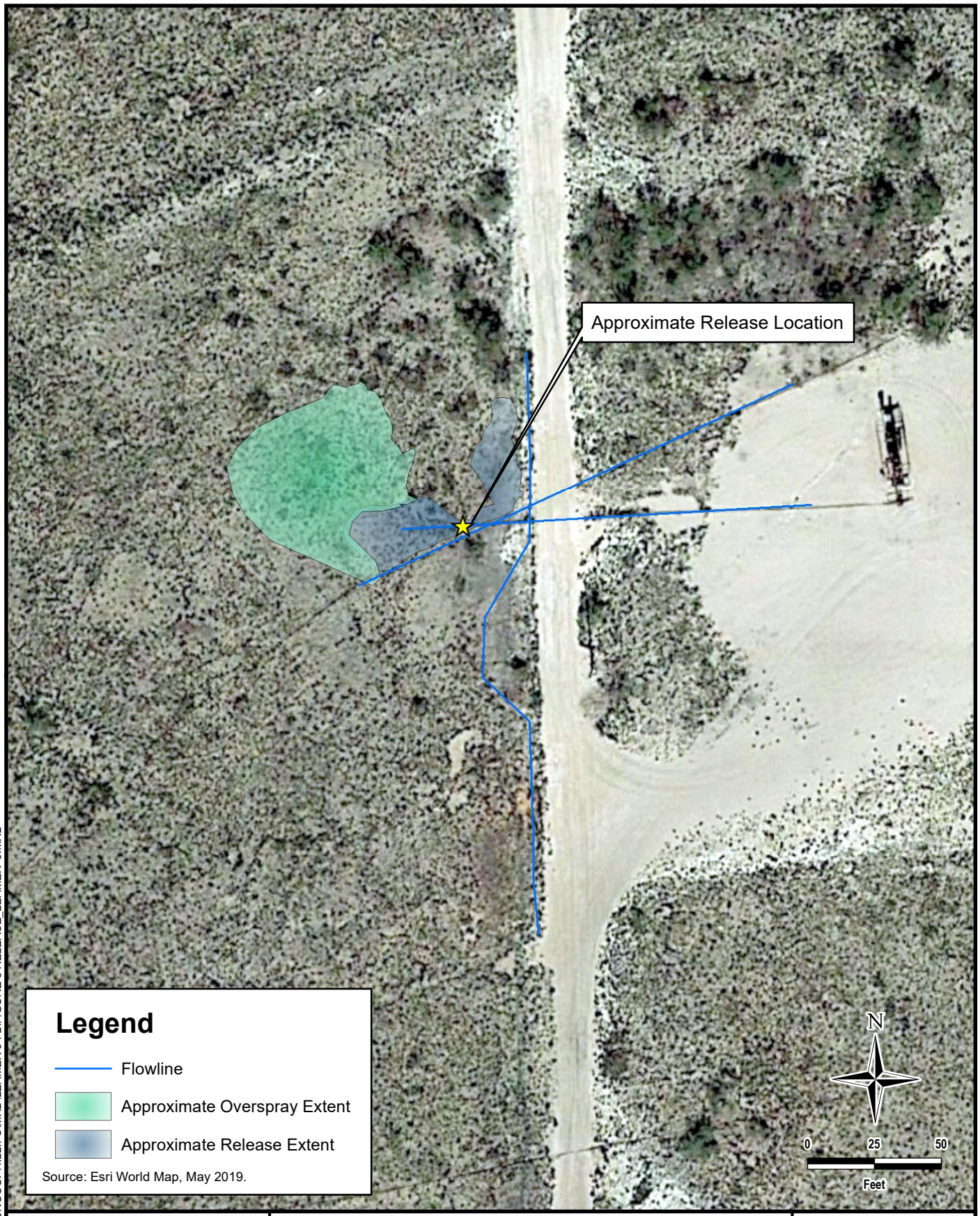
LEA COUNTY, NEW MEXICO

**LEAMEX 9 FLOWLINE RELEASE**
**TOPOGRAPHIC MAP**

| | |
|---|---|
| PROJECT NO.: | 212C-MD-02533 |
| DATE: | JULY 06, 2021 |
| DESIGNED BY: | AAM |

Figure No.
**2**




DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\LEAMEX 9 FL\FIGURE 3 RELEASE_LEAMEX 9.MXD

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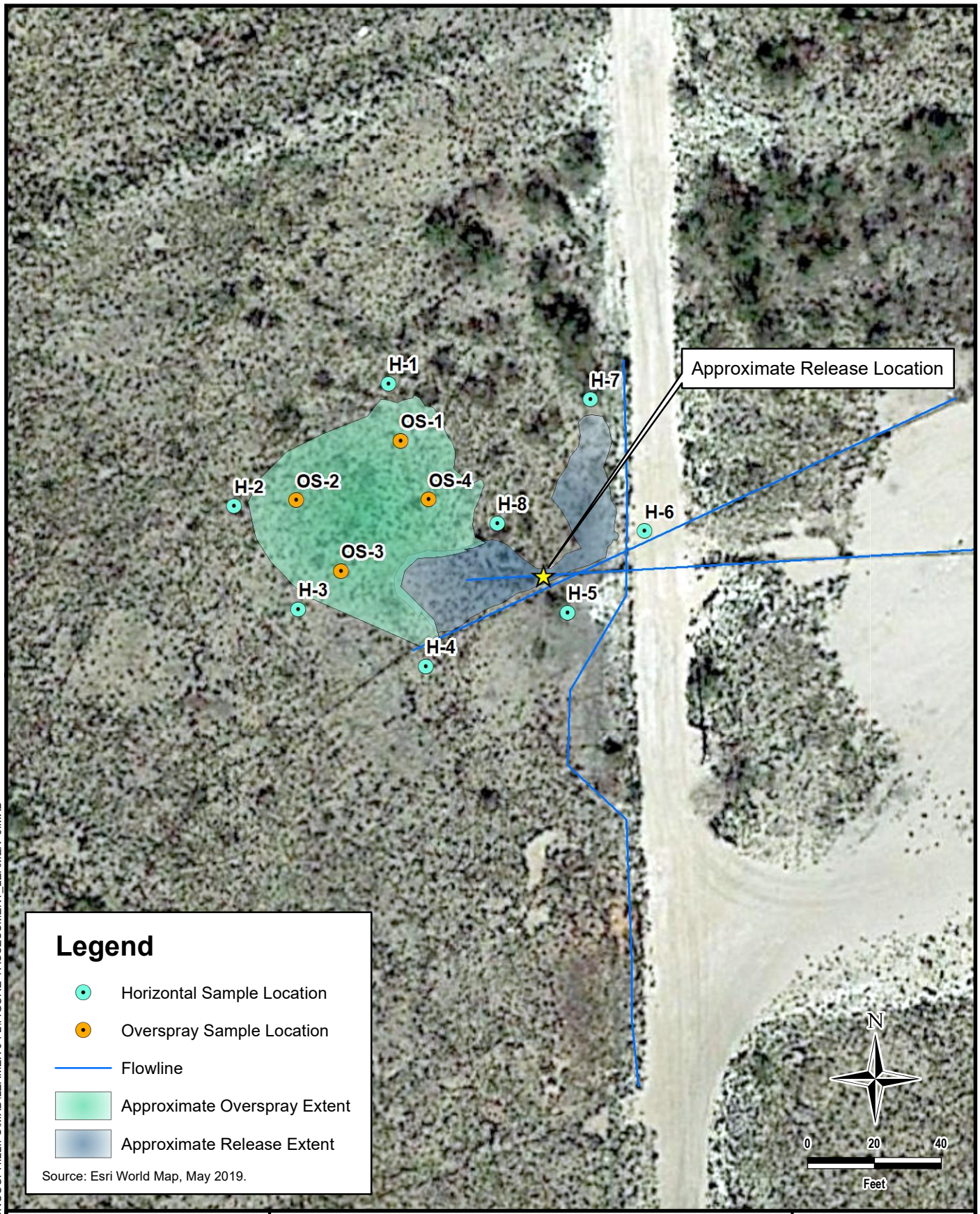
**LEAMEX 9 FLOWLINE RELEASE**
**APPROXIMATE RELEASE EXTENT**

| | |
|---|---|
| PROJECT NO.: | 212C-MD-02533 |
| DATE: | NOVEMBER 23, 2021 |
| DESIGNED BY: | AAM |

Figure No.
**3**




DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\LEAMEX 9 FL\FIGURE 4 ASSESSMENT_LEAMEX 9.MXD

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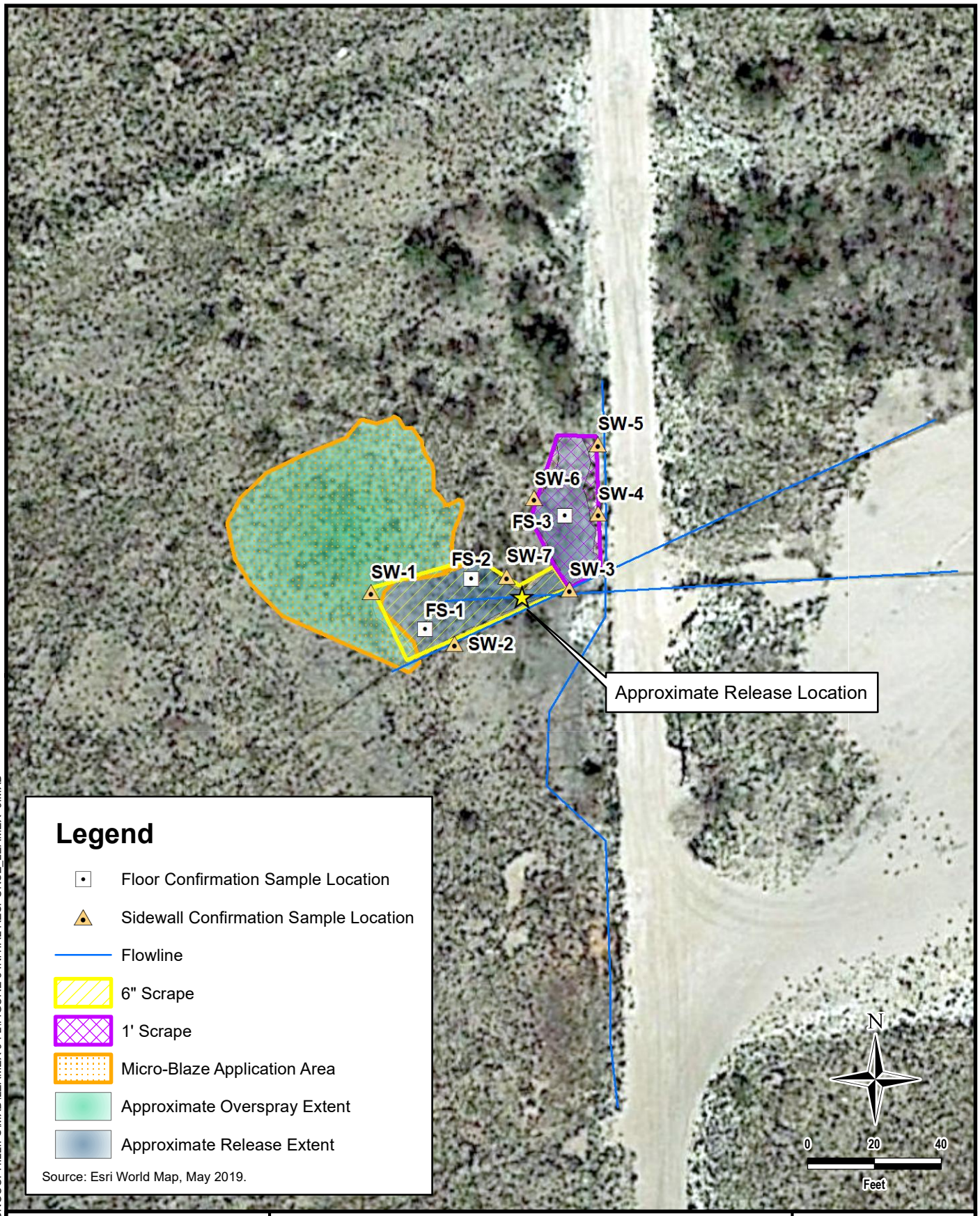
**LEAMEX 9 FLOWLINE RELEASE SITE ASSESSMENT**

| | |
|---|---|
| PROJECT NO.: | 212C-MD-02533 |
| DATE: | NOVEMBER 23, 2021 |
| DESIGNED BY: | AAM |

Figure No.

**4**




DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\LEAMEX 9 FL\FIGURE 5 INITIAL RESPONSE_LEAMEX 9.MXD

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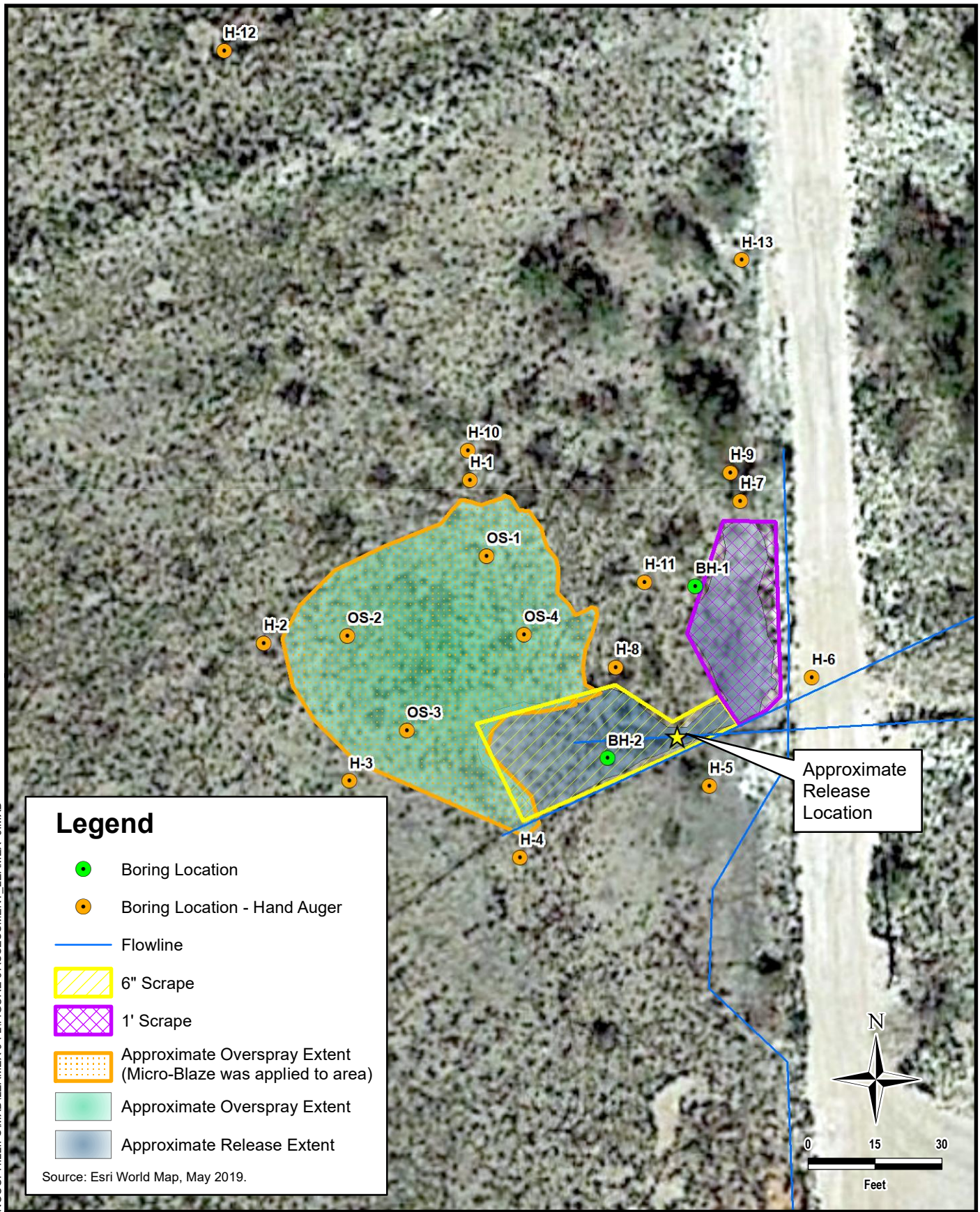
LEA COUNTY, NEW MEXICO

**LEAMEX 9 FLOWLINE RELEASE**
**INITIAL RESPONSE**

| | |
|---|---|
| PROJECT NO.: | 212C-MD-02533 |
| DATE: | NOVEMBER 23, 2021 |
| DESIGNED BY: | AAM |

Figure No.
**5**




## Legend

- Boring Location
- Boring Location - Hand Auger
- Flowline
- 6" Scrape
- 1' Scrape
- Approximate Overspray Extent (Micro-Blaze was applied to area)
- Approximate Overspray Extent
- Approximate Release Extent

Source: Esri World Map, May 2019.

DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\LEAMEX 9 FL\FIGURE 6 ASSESSMENT_LEAMEX_9.MXD

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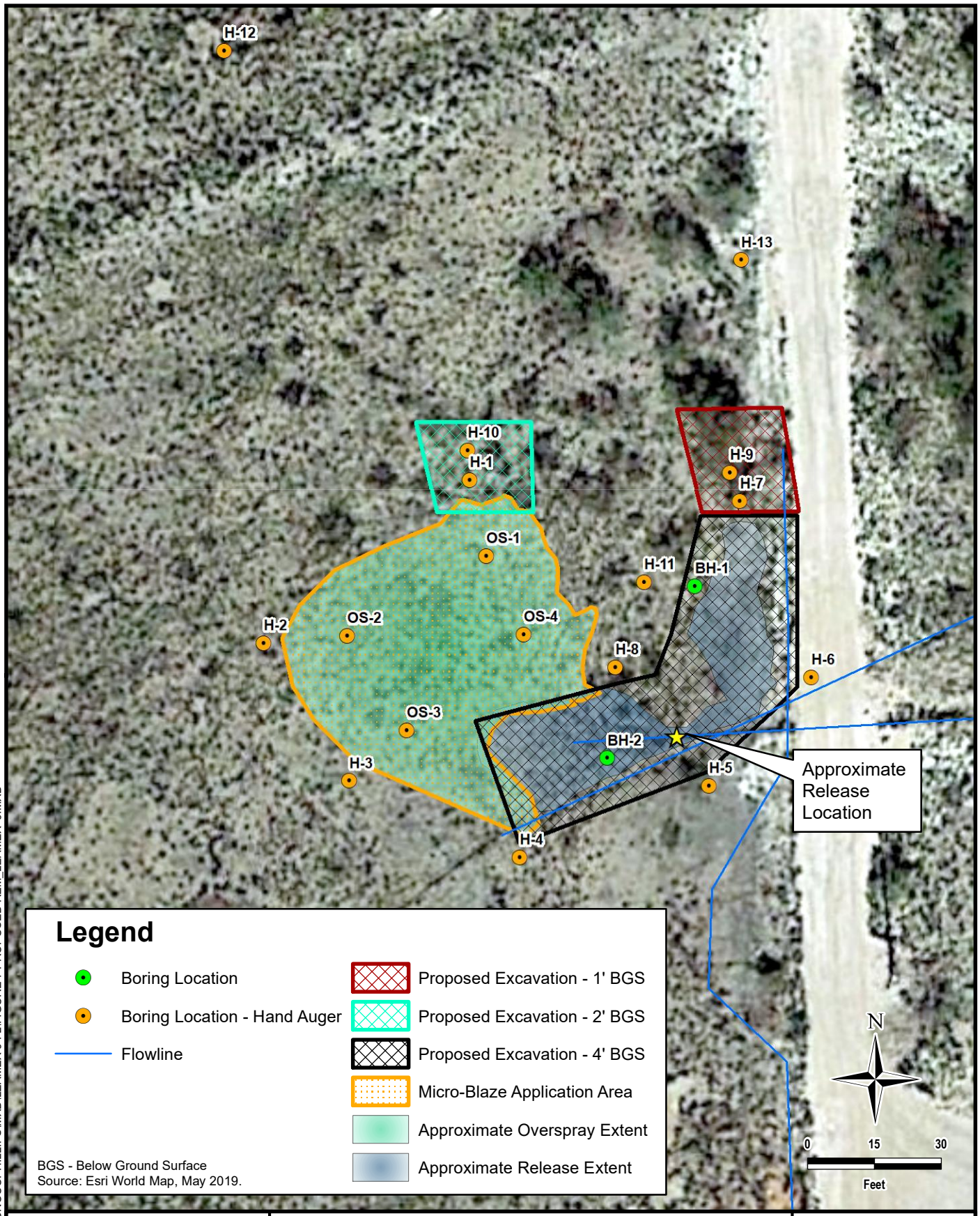
**LEAMEX 9 FLOWLINE RELEASE ADDITIONAL SITE ASSESSMENT**

| | |
|---|---|
| PROJECT NO.: | 212C-MD-02533 |
| DATE: | NOVEMBER 23, 2021 |
| DESIGNED BY: | AAM |

Figure No.
**6**




## Legend

- Boring Location
- Boring Location - Hand Auger
- Flowline
- Proposed Excavation - 1' BGS
- Proposed Excavation - 2' BGS
- Proposed Excavation - 4' BGS
- Micro-Blaze Application Area
- Approximate Overspray Extent
- Approximate Release Extent

BGS - Below Ground Surface
Source: Esri World Map, May 2019.

DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\LEAMEX 9 FL\FIGURE 7 PROPOSED REM_LEAMEX 9.MXD

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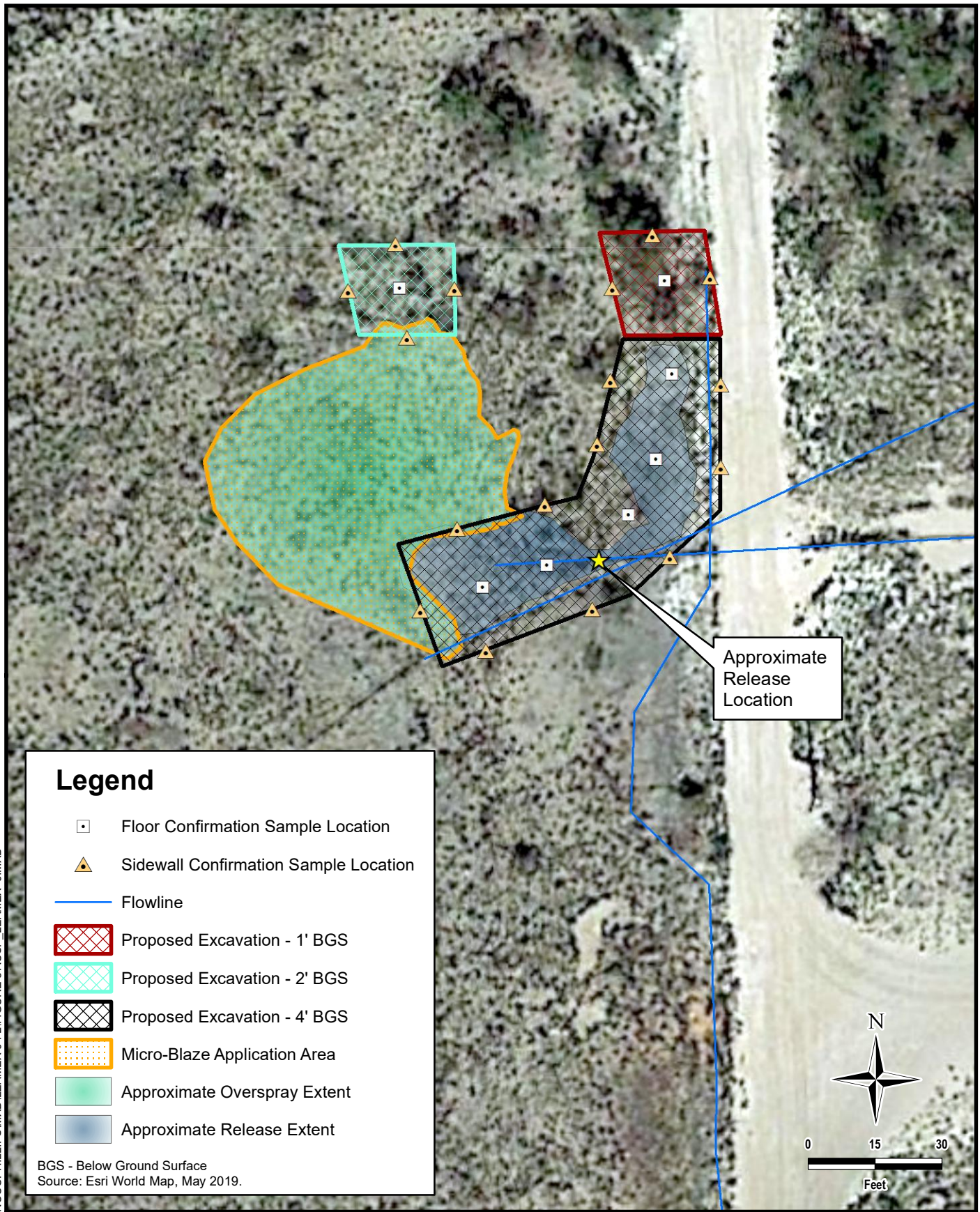
**LEAMEX 9 FLOWLINE RELEASE**
**PROPOSED REMEDIATION EXTENT**

| | |
|---|---|
| PROJECT NO.: | 212C-MD-02533 |
| DATE: | DECEMBER 03, 2021 |
| DESIGNED BY: | AAM |

Figure No.
**7**




DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\LEAMEX 9 FL\FIGURE 8 ACSP_LEAMEX_9.MXD

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**LEAMEX 9 FLOWLINE RELEASE**
**ALTERNATIVE CONFIRMATION SAMPLING PLAN**

| | |
|---|---|
| PROJECT NO.: | 212C-MD-02533 |
| DATE: | DECEMBER 03, 2021 |
| DESIGNED BY: | AAM |

Figure No.
**8**

# TABLES

# TABLE 1
# SUMMARY OF ANALYTICAL RESULTS
# ADDITIONAL SOIL ASSESSMENT - nAPP2110534368
# CONOCOPHILLIPS
# LEAMEX 009 FLOWLINE RELEASE
# LEA COUNTY, NM

| Sample ID | Sample Date | Sample Depth Interval | Field Screening Results | | Chloride[1] | | BTEX[2] | | | | | | | | | TPH[3] | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Chloride | PID | | | Benzene | | Toluene | | Ethylbenzene | | Total Xylenes | | Total BTEX | GRO[4] $C_3$ - $C_{10}$ | | DRO $C_{10}$ - $C_{28}$ | | ORO $C_{28}$ - $C_{40}$ | | Total TPH (GRO+DRO+ORO) |
| | | ft. bgs | 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 |
| H-1 | 6/21/2021 | 0-1 | 316 | - | 10.1 | J | < 0.00104 | | < 0.00522 | | < 0.00261 | | 0.00116 | J | 0.00116 | 0.0527 | J | 30.8 | | 134 | | ***165*** |
| H-2 | 6/21/2021 | 0-1 | 76.2 | - | < 20.4 | | < 0.00104 | | < 0.00519 | | < 0.00259 | | < 0.00674 | | - | < 0.102 | | 15.6 | | 36.4 | | 52.0 |
| H-3 | 6/21/2021 | 0-1 | 107 | - | < 20.4 | | 0.000494 | J | < 0.00520 | | < 0.00260 | | < 0.00676 | | - | < 0.102 | | 6.33 | | 20.3 | | 26.6 |
| H-4 | 6/21/2021 | 0-1 | 226 | - | 46.9 | | < 0.00108 | | < 0.00540 | | < 0.00270 | | 0.00109 | J | 0.00109 | 0.134 | | 26.6 | | 49.2 | | 75.9 |
| H-5 | 6/21/2021 | 0-1 | 165 | - | 31.3 | | < 0.00117 | | < 0.00583 | | < 0.00291 | | < 0.00757 | | - | 0.0498 | J | 10.1 | | 24.7 | | 34.8 |
| H-6 | 6/21/2021 | 0-1 | 164 | - | 59.3 | | < 0.00105 | | < 0.00525 | | < 0.00263 | | < 0.00683 | | - | < 0.103 | | 2.23 | J | 5.96 | | 8.19 |
| H-7 | 6/21/2021 | 0-1 | 114 | - | < 20.5 | | 0.000524 | J | < 0.00524 | | < 0.00262 | | 0.00134 | J | 0.00186 | 0.0315 | J | 20.0 | J | 94.8 | | ***115*** |
| H-8 | 6/21/2021 | 0-1 | 168 | - | 19.9 | J | < 0.00105 | | < 0.00525 | | < 0.00262 | | 0.000935 | J | 0.000935 | 0.0269 | J | 8.84 | | 30.6 | | 39.5 |
| OS-1 | 6/21/2021 | 0-1 | 97.3 | - | < 20.5 | | < 0.00105 | | < 0.00527 | | < 0.00263 | | 0.00446 | J | 0.00446 | 0.127 | | 5.22 | | 17.5 | | 22.8 |
| OS-2 | 6/21/2021 | 0-1 | 106 | - | < 20.3 | | < 0.00103 | | < 0.00515 | | < 0.00258 | | < 0.00670 | | - | 0.0990 | J | 2.09 | J J3 J6 | 8.75 | | 10.9 |
| OS-3 | 6/21/2021 | 0-1 | 131 | - | < 20.9 | | < 0.00109 | | < 0.00545 | | < 0.00273 | | < 0.00709 | | - | 0.0938 | J | 16.7 | | 42.9 | | 59.7 |
| OS-4 | 6/21/2021 | 0-1 | 53.8 | - | < 20.6 | | < 0.00106 | | < 0.00528 | | < 0.00264 | | 0.00106 | J | 0.00106 | 0.0892 | J | 9.24 | | 29.9 | | 39.2 |

NOTES:

ft. Feet

bgs Below ground surface

ppm Parts per million

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

ORO Oil range organics

1 EPA Method 300.0

2 EPA Method 8260B

3 EPA Method 8015

4 EPA Method 8015D/GRO

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

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

J The identification of the analyte is acceptable; the reported value is an estimate.

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

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

# TABLE 2
# SUMMARY OF ANALYTICAL RESULTS
# INITIAL RESPONSE CONFIRMATION SAMPLING - nAPP2110534368
# CONOCOPHILLIPS
# LEAMEX 009 FLOWLINE RELEASE
# LEA COUNTY, NM

| Sample ID | Sample Date | Sample Depth Interval | Field Screening Results | | Chloride[1] | | BTEX[2] | | | | | | | | TPH[3] | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Chloride | PID | | | Benzene | | Toluene | | Ethylbenzene | | Total Xylenes | | Total BTEX | GRO[4] $C_3$ - $C_{10}$ | | DRO $C_{10}$ - $C_{28}$ | | ORO $C_{28}$ - $C_{40}$ | | Total TPH (GRO+DRO+ORO) |
| | | ft. bgs | 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 |
| FS-1 (0.5') | 6/21/2021 | 0.5 | 5100 | - | ***5,720*** | V | < 0.0107 | | 0.180 | | 2.17 | | 5.44 | | 7.79 | 804 | | 5,980 | | 3,940 | | ***10,724*** |
| FS-2 (0.5') | 6/21/2021 | 0.5 | 4130 | - | ***3,910*** | | < 0.0107 | | 0.0161 | J | 0.127 | | 2.64 | | 2.78 | 573 | | 7,220 | | 5,080 | | ***12,873*** |
| FS-3 (1') | 6/21/2021 | 1 | 1460 | - | ***2,980*** | | 0.0695 | | 3.42 | | 8.06 | | 16.0 | | 27.5 | 839 | | 13,200 | | 8,060 | | ***22,099*** |
| SW-1 | 6/21/2021 | - | 175 | - | 73.4 | | < 0.00105 | | < 0.00524 | | < 0.00262 | | 0.00118 | J | 0.00118 | 0.0380 | J | 9.46 | | 21.5 | | 31.0 |
| SW-2 | 6/21/2021 | - | 312 | - | 255 | | < 0.00108 | | < 0.00540 | | 0.00167 | J | 0.00340 | J | 0.00507 | 0.183 | | 80.3 | | 96.9 | | ***177*** |
| SW-3 | 6/21/2021 | - | 354 | - | 223 | | 0.000682 | J | 0.00480 | J | 0.0294 | | 0.0776 | | 0.112 | 0.368 | | 66.3 | | 228 | | ***295*** |
| SW-4 | 6/21/2021 | - | 186 | - | 55.0 | | < 0.00105 | | 0.00187 | J | 0.00223 | J | 0.00596 | J | 0.0101 | 0.0697 | J | 20.2 | | 97.1 | | ***117*** |
| SW-5 | 6/21/2021 | - | 187 | - | 53.4 | | < 0.00108 | | < 0.00541 | | < 0.00271 | | < 0.00704 | | - | 0.0243 | J | 13.4 | | 57.0 | | 70.4 |
| SW-6 | 6/21/2021 | - | 323 | - | 166 | | < 0.00104 | | < 0.00520 | | < 0.00260 | | < 0.00676 | | - | 0.0392 | J | 38.3 | | 98.4 | | ***137*** |
| SW-7 | 6/21/2021 | - | 358 | - | 183 | | < 0.00109 | | < 0.00543 | | < 0.00272 | | 0.00417 | J | 0.00417 | 0.168 | | 410 | | 360 | | ***770*** |

NOTES:

ft. Feet
bgs Below ground surface
ppm Parts per million
mg/kg Milligrams per kilogram
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics
ORO Oil range organics
1 EPA Method 300.0
2 EPA Method 8260B
3 EPA Method 8015
4 EPA Method 8015D/GRO

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

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

J The identification of the analyte is acceptable; the reported value is an estimate.
V The sample concentration is too high to evaluate accurate spike recoveries.

# TABLE 3
# SUMMARY OF ANALYTICAL RESULTS
# ADDITIONAL DELINEATION - nAPP2110534368
# CONOCOPHILLIPS
# LEAMEX 009 FLOWLINE RELEASE
# LEA COUNTY, NM

| Sample ID | Sample Date | Sample Depth Interval | Field Screening Results | | Chloride[1] | | BTEX[2] | | | | | | | | | | TPH[3] | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Chloride | PID | | | Benzene | | Toluene | | Ethylbenzene | | Total Xylenes | | Total BTEX | | GRO[4] $C_3$ - $C_{10}$ | | DRO $C_{10}$ - $C_{28}$ | | ORO $C_{28}$ - $C_{40}$ | | Total TPH (GRO+DRO+ORO) |
| | | ft. bgs | 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 |
| BH-1 | 8/19/2021 | 0-1 | 469 | 2.6 | ***606*** | | < 0.00165 | | < 0.00825 | | < 0.00412 | | < 0.0107 | | - | | 0.0480 | B J | < 5.30 | | 0.363 | J | 0.411 |
| | | 2-3 | 307 | 1.1 | 296 | | < 0.00151 | | < 0.00753 | | < 0.00377 | | < 0.00979 | | - | | 0.0590 | B J | < 5.01 | | 3.38 | J | 3.44 |
| | | 4-5 | 425 | 0.7 | 486 | | < 0.00146 | | < 0.00732 | | < 0.00366 | | < 0.00951 | | - | | < 0.123 | | < 4.92 | | 0.465 | J | 0.465 |
| | | 6-7 | 378 | 0.1 | 470 | | < 0.00144 | | < 0.00719 | | < 0.00359 | | < 0.00934 | | - | | 0.0647 | B J | < 4.87 | | 0.581 | J | 0.646 |
| | | 9-10 | 145 | 0.1 | 237 | | < 0.00140 | | < 0.00699 | | < 0.00349 | | < 0.00908 | | - | | 0.0459 | B J | < 4.80 | | < 4.80 | | 0.0459 |
| | | 14-15 | 111 | 0.1 | 182 | | < 0.00131 | | < 0.00657 | | < 0.00329 | | < 0.00854 | | - | | 0.0464 | B J Q | < 4.63 | | 0.611 | J | 0.657 |
| BH-2 | 8/19/2021 | 0-1 | 972 | 15.7 | ***854*** | | < 0.00134 | | < 0.00669 | | < 0.00335 | | 0.0320 | | 0.0320 | | 1.98 | | 1030 | | 704 | | ***1,736*** |
| | | 2-3 | 5.33 | 10.1 | ***733*** | | < 0.00135 | | < 0.00673 | | < 0.00337 | | 0.178 | | 0.178 | | 1.85 | | 291 | | 203 | | ***496*** |
| | | 4-5 | 2260 | 5.5 | 2,170 | | < 0.00133 | | < 0.00667 | | < 0.00333 | | < 0.00867 | | - | | 0.0952 | B J | 67.8 | | 46.2 | | 114 |
| | | 6-7 | 71.6 | 0.3 | 37.5 | | < 0.00107 | | < 0.00533 | | < 0.00267 | | < 0.00693 | | - | | 0.0435 | B J | 6.67 | | 3.65 | J | 10.4 |
| | | 9-10 | 63.2 | 0.1 | 49.8 | | < 0.00109 | | < 0.00546 | | < 0.00273 | | < 0.00710 | | - | | 0.0444 | B J | 2.13 | J | 1.08 | J | 3.25 |
| | | 14-15 | 62.3 | 0.1 | 452 | | < 0.00165 | | < 0.00824 | | < 0.00412 | | < 0.0107 | | - | | 0.0361 | B J Q | < 5.29 | | < 5.29 | | 0.0361 |
| H-9 | 8/19/2021 | 0-1 | 126 | - | 139 | | < 0.00150 | | < 0.00748 | | < 0.00374 | | 0.00202 | J | 0.00202 | | 0.0405 | B J | 51.6 | | 155 | | ***207*** |
| | | 1-2 | 112 | - | 224 | | < 0.00143 | | < 0.00713 | | < 0.00356 | | < 0.00927 | | - | | 0.0432 | B J | 14.4 | | 46.6 | | 61.0 |
| | | 2-3 | 98.0 | - | 19.0 | | < 0.00120 | | < 0.00598 | | < 0.00299 | | < 0.00777 | | - | | 0.0328 | B J | 16.5 | | 54.6 | | 71.1 |
| | | 3-4 | 89.8 | - | 16.5 | J | < 0.00116 | J3 | < 0.00579 | J3 | < 0.00290 | J3 | < 0.00753 | J3 | - | | 0.0410 | B J | 15.4 | | 52.2 | | 67.6 |
| H-10 | 8/19/2021 | 0-1 | 333 | - | 103 | | < 0.00121 | | < 0.00603 | | < 0.00301 | | < 0.00784 | | - | | 0.0421 | B J | 64.3 | J3 J5 J6 | 189 | | ***253*** |
| | | 1-2 | 183 | - | 16.7 | J | < 0.00121 | | < 0.00604 | | < 0.00302 | | < 0.00786 | | - | | 0.0415 | B J | 71.2 | | 223 | | ***294*** |
| | | 2-3 | 191 | - | 129 | | < 0.00138 | | < 0.00690 | | < 0.00345 | | < 0.00897 | | - | | 0.0432 | B J | 5.74 | | 19.5 | | 25.3 |
| | | 3-4 | 200 | - | 210 | | < 0.00131 | | < 0.00655 | | < 0.00327 | | < 0.00851 | | - | | 0.0401 | B J Q | < 4.62 | | < 4.62 | | 0.0401 |
| H-11 | 8/19/2021 | 0-1 | 107 | - | 68.3 | | < 0.00137 | | < 0.00684 | | < 0.00342 | | < 0.00889 | | - | | < 0.118 | | 9.78 | | 21.9 | | 31.7 |
| | | 1-2 | 103 | - | 106 | | < 0.00132 | | < 0.00660 | | < 0.00330 | | < 0.00858 | | - | | < 0.116 | | < 4.64 | | 1.14 | J | 1.14 |
| | | 2-3 | 108 | - | 147 | | < 0.00147 | | < 0.00735 | | < 0.00368 | | < 0.00956 | | - | | < 0.124 | | 2.20 | J | 4.26 | J | 6.46 |
| | | 3-4 | 156 | - | 136 | | < 0.00123 | | < 0.00613 | | < 0.00307 | | < 0.00797 | | - | | < 0.112 | | < 4.45 | | < 4.45 | | - |
| H-12 | 9/20/2021 | 0-1 | 103 | 0.1 | < 20.5 | | < 0.00105 | | < 0.00527 | | < 0.00777 | | 0.00119 | J | 0.00119 | | 0.0394 | B J | 2.82 | J | 9.33 | | 12.2 |
| H-13 | 9/20/2021 | 0-1 | 78.4 | 0.1 | 15.6 | J | < 0.00153 | | < 0.00767 | | < 0.00383 | | < 0.00997 | | - | | 0.0491 | J | 2.04 | J | 3.39 | J | 5.48 |

NOTES:

| | |
|---|---|
| ft. | Feet |
| bgs | Below ground surface |
| ppm | Parts per million |
| mg/kg | Milligrams per kilogram |
| TPH | Total Petroleum Hydrocarbons |
| GRO | Gasoline range organics |
| DRO | Diesel range organics |
| ORO | Oil range organics |
| 1 | EPA Method 300.0 |
| 2 | EPA Method 8260B |
| 3 | EPA Method 8015 |
| 4 | EPA Method 8015D/GRO |

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

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

| | |
|---|---|
| B | The same analyte is found in the associated blank. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| Q | Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values. |

# APPENDIX A
# C-141 Forms

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 | NAPP2110534368 |
| District RP | |
| Facility ID | |
| Application ID | |

# Release Notification

## Responsible Party

| | |
|---|---|
| Responsible Party ConocoPhillips Company | OGRID 217817 |
| Contact Name Kelsy Waggaman | Contact Telephone 505-577-9071 |
| Contact email Kelsy.Waggaman@ConocoPhillips.com | Incident # *(assigned by OCD)* nAPP2110534368 |
| Contact mailing address 29 Vacuum Complex Lane, Lovington, NM 88260 | |

## Location of Release Source

Latitude 32.829040 Longitude -103.666573
*(NAD 83 in decimal degrees to 5 decimal places)*

| | |
|---|---|
| Site Name LEAMEX 9 flowline | Site Type pasture |
| Date Release Discovered 4/5/21 | API# *(if applicable)* N/A |

| Unit Letter | Section | Township | Range | County |
|---|---|---|---|---|
| O | 16 | 17S | 33E | Lea |

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (*Name:* )

## Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

| | | |
|---|---|---|
| ☒ Crude Oil | Volume Released (bbls) 3.1 | Volume Recovered (bbls) 0 |
| ☒ Produced Water | Volume Released (bbls) 7.7 | Volume Recovered (bbls) 2 |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | ☐ Yes ☐ No |
| ☐ Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| ☐ Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| ☐ Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release

A flowline leak occurred off the Leamex 9 producing well that resulted in approximately 10.82 bbls total fluid with 3.138 bbls being oil and 7.682 bbls being PW. The leak occurred approximately 40 yards west of the Leamex 9 well and was off the pad. Leak duration was at least 24 hours.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | NAPP2110534368 |
| District RP | |
| Facility ID | |
| Application ID | |

| | |
|---|---|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br>☐ Yes ☒ No | If YES, for what reason(s) does the responsible party consider this a major release? |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? | |

## 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 release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Kelsy Waggaman  Title: Environmental Coordinator

Signature: [signature]  Date: 3/15/21

email: Kelsy.Waggaman@ConocoPhillips.com  Telephone: 505-577-9071

**OCD Only**

Received by: Ramona Marcus  Date: 5/7/2021

## L48 Spill Volume Estimate Form



Release Discovery Date & Time: 4/5/2021

Release Type: Oil Mixture

Provide any known details about the event: FLOWLINE LEAK - OFF LOCATION IMPACT

### Spill Calculation - On Pad Surface Pool Spill

| Convert Irregular shape into a series of rectangles | Length (ft.) | Width (ft.) | Deepest point in each of the areas (in.) | No. of boundaries of "shore" in each area | Estimated *Pool* Area (sq. ft.) | Estimated Average Depth (ft.) | Estimated volume of each pool area (bbl.) | Penetration allowance (ft.) | Total Estimated Volume of Spill (bbl.) | Percentage of Oil if Spilled Fluid is a Mixture | Total Estimated Volume of Spilled Oil (bbl.) | Total Estimated Volume of Spilled Liquid other than Oil (bbl.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Rectangle A | 30.0 | 18.0 | 2.50 | 4 | 540.000 | 0.052 | 5.006 | 0.003 | 5.019 | | 0.000 | 5.019 |
| Rectangle B | 39.0 | 15.0 | 2.00 | 3 | 585.000 | 0.056 | 5.785 | 0.003 | 5.801 | | 0.000 | 5.801 |
| Rectangle C | | | | | 0.000 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | | #DIV/0! | #DIV/0! |
| Rectangle D | | | | | 0.000 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | | #DIV/0! | #DIV/0! |
| Rectangle E | | | | | 0.000 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | | #DIV/0! | #DIV/0! |
| Rectangle F | | | | | 0.000 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | | #DIV/0! | #DIV/0! |
| Rectangle G | | | | | 0.000 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | | #DIV/0! | #DIV/0! |
| Rectangle H | | | | | 0.000 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | | #DIV/0! | #DIV/0! |
| Rectangle I | | | | | 0.000 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | | #DIV/0! | #DIV/0! |
| | | | | | 0.000 | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | | #DIV/0! | #DIV/0! |
| | | | | | | | | Total Volume Release: | 10.820 | | 0.000 | 10.820 |

**District I**
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
**District II**
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
**District III**
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
**District IV**
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 24158

## CONDITIONS OF APPROVAL

| Operator: | | | OGRID: | Action Number: | Action Type: |
|---|---|---|---|---|---|
| CONOCOPHILLIPS COMPANY | 600 W. Illinois Avenue | Midland, TX79701 | 217817 | 24158 | C-141 |

| OCD Reviewer | Condition |
|---|---|
| rmarcus | None |

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

# Site Assessment/Characterization

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

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

**OCD Only**

Received by: _____ Date: _____

| | |
|---|---|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

# Remediation Plan

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

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

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

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

☐ Extents of contamination must be fully delineated.

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

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

**OCD Only**

Received by: _____ Date: _____

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

Signature: _____ Date: _____

# APPENDIX B
# Site Characterization Data

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

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

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

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

| POD Number | POD Sub-basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X | Y | Distance | Depth Well | Depth Water | Water Column |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L 09891 | L | LE | 4 | 4 | 16 | 17S | 33E | 625264 | 3633144* | | 460 | 190 | | |

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

**Record Count:** 1

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 624803.64 **Northing (Y):** 3633138.3 **Radius:** 800

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

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

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

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

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

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

| POD Number | POD Sub-basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X | Y | Distance | Depth Well | Depth Water | Water Column |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L 09891 | L | LE | 4 | 4 | 16 | 17S | 33E | | 625264 | 3633144* | 460 | 190 | | |
| L 02875 | L | LE | 2 | 2 | 20 | 17S | 33E | | 623662 | 3632717* | 1216 | 250 | 190 | 60 |

Average Depth to Water: **190 feet**

Minimum Depth: **190 feet**

Maximum Depth: **190 feet**

**Record Count:** 2

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 624803.64 **Northing (Y):** 3633138.3 **Radius:** 1250

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

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

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

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

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

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

| POD Number | POD Sub-basin | Code | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X | Y | Distance | Depth Well | Depth Water | Water Column |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L 09891 | L | | LE | | 4 | 4 | 16 | 17S | 33E | 625264 | 3633144* | 460 | 190 | | |
| L 02875 | L | | LE | | 2 | 2 | 20 | 17S | 33E | 623662 | 3632717* | 1216 | 250 | 190 | 60 |
| L 03749 | L | | LE | | 3 | 3 | 09 | 17S | 33E | 624036 | 3634734* | 1770 | 230 | 160 | 70 |
| L 03622 | L | | LE | | | | 17 | 17S | 33E | 623053 | 3633703* | 1839 | 226 | 180 | 46 |
| L 03528 S2 | L | | LE | 1 | 3 | 3 | 09 | 17S | 33E | 623935 | 3634833* | 1904 | 262 | 180 | 82 |
| L 13049 POD1 | L | | LE | 2 | 2 | 2 | 29 | 17S | 33E | 623782 | 3631207* | 2184 | 244 | 204 | 40 |

Average Depth to Water: **182 feet**

Minimum Depth: **160 feet**

Maximum Depth: **204 feet**

**Record Count:** 6

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 624803.64 **Northing (Y):** 3633138.3 **Radius:** 2500

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

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

Received by OCD: 1/11/2022 8:46:36 PM


# Leamex 9 Flowline Release

Karst Potential Map

**Legend**

- Approximate Release Point
- High
- Low
- Medium

Approximate Release Point

N

2 mi

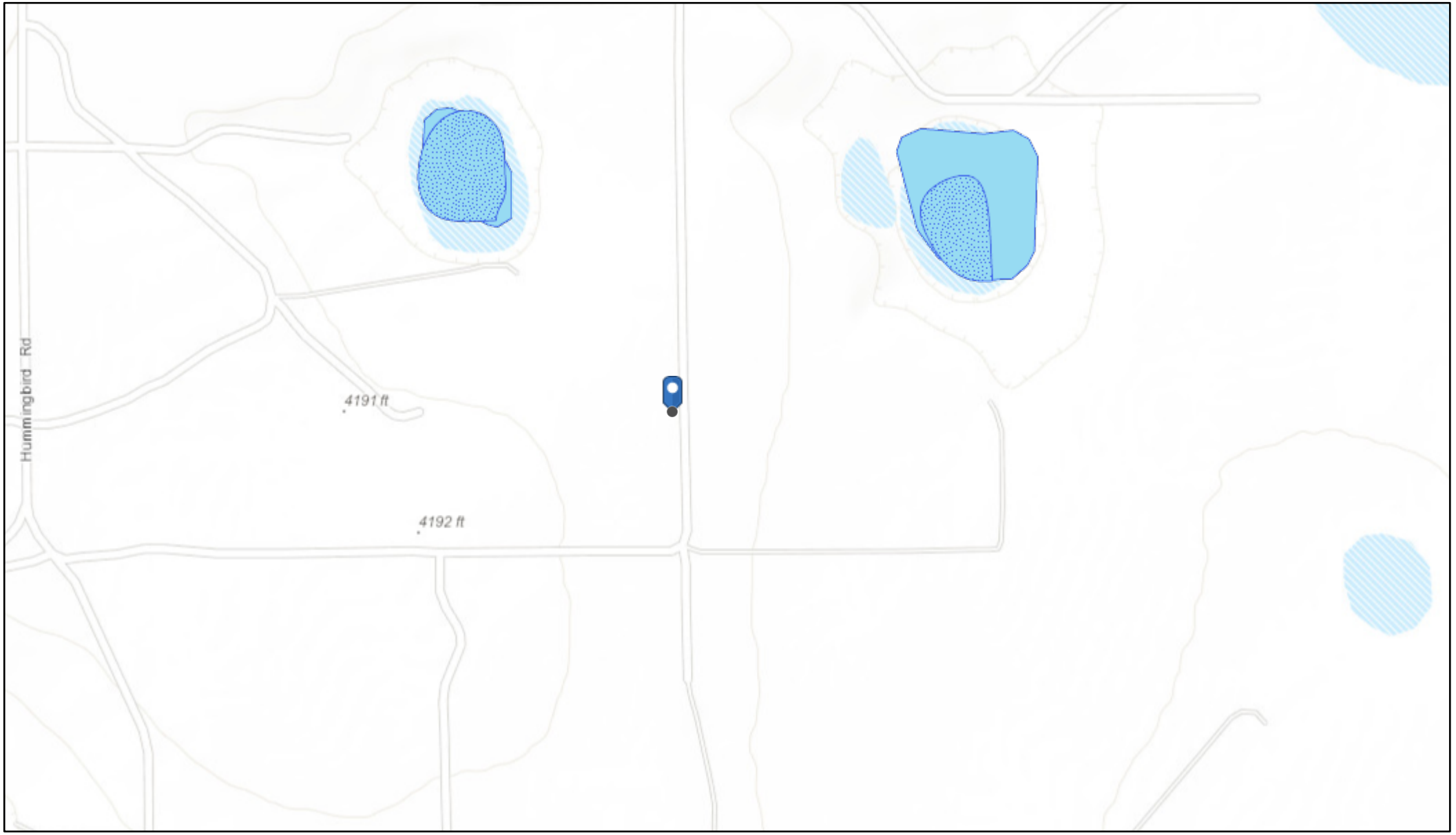
Google Earth

Released to Imaging: 2/2/2022 8:25:18 AM

© 2021 Google

# OCD Waterbodies Map Leamex 9






5/25/2021, 3:57:54 PM

OSE Water-bodies

PLJV Probable Playas

OSE Streams

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

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



New Mexico Oil Conservation Division

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

# APPENDIX C
# Laboratory Analytical Data

# ANALYTICAL REPORT

July 12, 2021



## ConocoPhillips - Tetra Tech

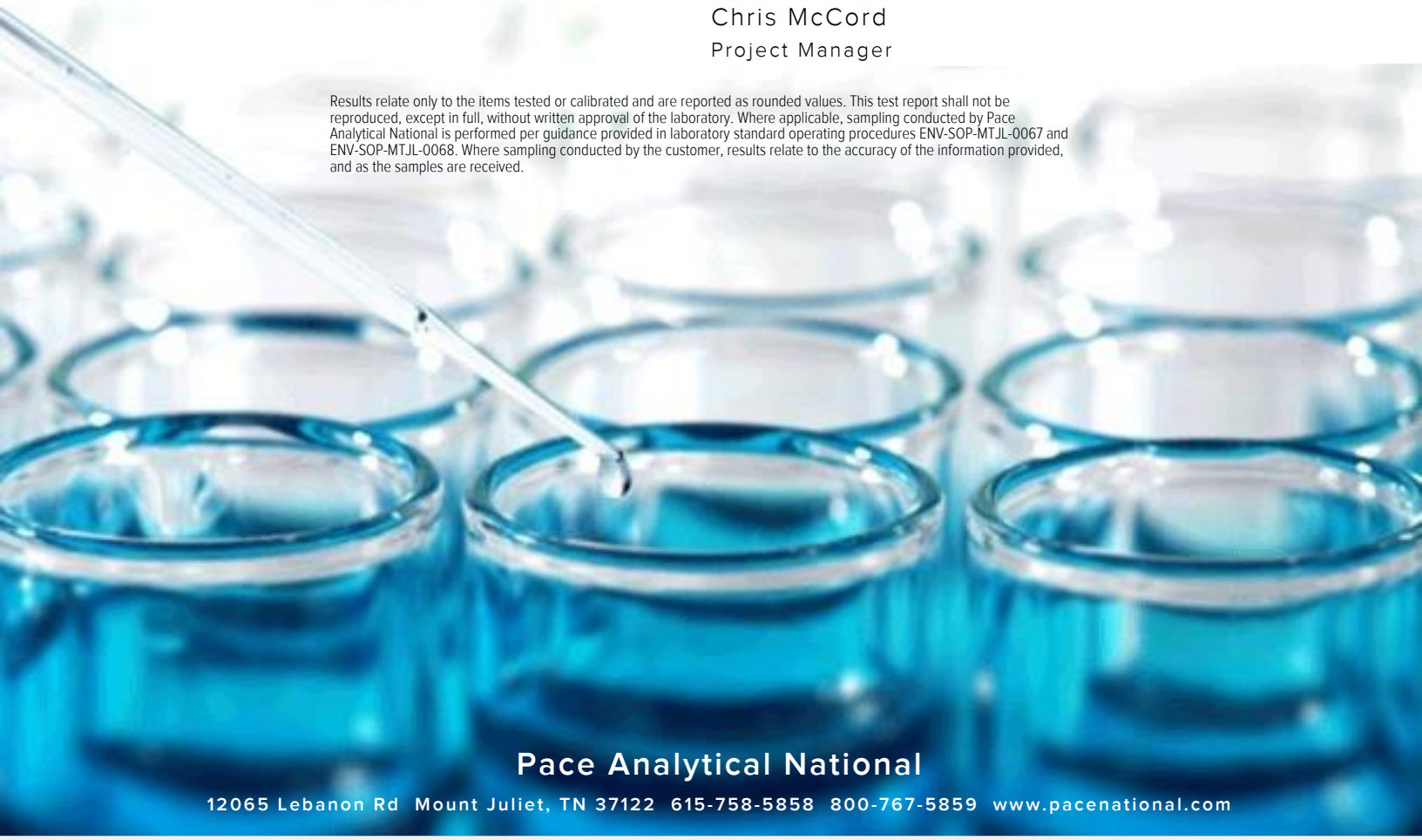
| | |
|---|---|
| Sample Delivery Group: | L1369649 |
| Samples Received: | 06/23/2021 |
| Project Number: | 212C-MD-02533 |
| Description: | Leamex 009 FL Release |

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.



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

# TABLE OF CONTENTS





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

## H-1 (0-1) L1369649-01 Solid

Collected by: Andrew Garcia | Collected date/time: 06/21/21 08:30 | Received date/time: 06/23/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1696207 | 1 | 06/28/21 15:56 | 06/28/21 16:04 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1700495 | 1 | 07/09/21 23:36 | 07/10/21 01:30 | GB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1698564 | 1 | 06/24/21 19:47 | 07/01/21 18:25 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1695304 | 1 | 06/24/21 19:47 | 06/25/21 23:04 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1697149 | 2 | 06/30/21 08:20 | 07/01/21 17:41 | TJD | Mt. Juliet, TN |

## H-2 (0-1) L1369649-02 Solid

Collected by: Andrew Garcia | Collected date/time: 06/21/21 08:45 | Received date/time: 06/23/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1696207 | 1 | 06/28/21 15:56 | 06/28/21 16:04 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1700495 | 1 | 07/09/21 23:36 | 07/10/21 01:40 | GB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1698564 | 1 | 06/24/21 19:47 | 07/01/21 18:47 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1695304 | 1 | 06/24/21 19:47 | 06/25/21 23:23 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1697149 | 1 | 06/30/21 08:20 | 07/01/21 16:00 | TJD | Mt. Juliet, TN |

## H-3 (0-1) L1369649-03 Solid

Collected by: Andrew Garcia | Collected date/time: 06/21/21 09:00 | Received date/time: 06/23/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1696207 | 1 | 06/28/21 15:56 | 06/28/21 16:04 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1700495 | 1 | 07/09/21 23:36 | 07/10/21 01:49 | GB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1698564 | 1 | 06/24/21 19:47 | 07/01/21 19:09 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1695304 | 1 | 06/24/21 19:47 | 06/25/21 23:42 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1697149 | 1 | 06/30/21 08:20 | 07/01/21 09:35 | JDG | Mt. Juliet, TN |

## H-4 (0-1) L1369649-04 Solid

Collected by: Andrew Garcia | Collected date/time: 06/21/21 09:15 | Received date/time: 06/23/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1696208 | 1 | 06/29/21 10:36 | 06/29/21 10:49 | CMK | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1700495 | 1 | 07/09/21 23:36 | 07/10/21 01:59 | GB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1698572 | 1 | 06/24/21 19:47 | 07/02/21 09:49 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1695304 | 1 | 06/24/21 19:47 | 06/26/21 00:01 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1697149 | 1 | 06/30/21 08:20 | 07/01/21 11:05 | JDG | Mt. Juliet, TN |

## H-5 (0-1) L1369649-05 Solid

Collected by: Andrew Garcia | Collected date/time: 06/21/21 09:30 | Received date/time: 06/23/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1696208 | 1 | 06/29/21 10:36 | 06/29/21 10:49 | CMK | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1700495 | 1 | 07/09/21 23:36 | 07/10/21 02:08 | GB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1698572 | 1 | 06/24/21 19:47 | 07/02/21 10:28 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1695304 | 1 | 06/24/21 19:47 | 06/26/21 00:20 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1697149 | 1 | 06/30/21 08:20 | 07/01/21 10:26 | JDG | Mt. Juliet, TN |

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

## H-6 (0-1) L1369649-06 Solid

Collected by: Andrew Garcia | Collected date/time: 06/21/21 09:45 | Received date/time: 06/23/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1696208 | 1 | 06/29/21 10:36 | 06/29/21 10:49 | CMK | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1700495 | 1 | 07/09/21 23:36 | 07/10/21 02:18 | GB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1698572 | 1 | 06/24/21 19:47 | 07/02/21 10:50 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1695304 | 1 | 06/24/21 19:47 | 06/26/21 00:39 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1697149 | 1 | 06/30/21 08:20 | 07/01/21 09:23 | JDG | Mt. Juliet, TN |

## H-7 (0-1) L1369649-07 Solid

Collected by: Andrew Garcia | Collected date/time: 06/21/21 10:00 | Received date/time: 06/23/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1696208 | 1 | 06/29/21 10:36 | 06/29/21 10:49 | CMK | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1700495 | 1 | 07/09/21 23:36 | 07/10/21 02:27 | GB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1698572 | 1 | 06/24/21 19:47 | 07/02/21 11:12 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1695304 | 1 | 06/24/21 19:47 | 06/26/21 00:58 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1697149 | 10 | 06/30/21 08:20 | 07/01/21 15:47 | TJD | Mt. Juliet, TN |

## H-8 (0-1) L1369649-08 Solid

Collected by: Andrew Garcia | Collected date/time: 06/21/21 10:15 | Received date/time: 06/23/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1696208 | 1 | 06/29/21 10:36 | 06/29/21 10:49 | CMK | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1700495 | 1 | 07/09/21 23:36 | 07/10/21 02:37 | GB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1698572 | 1 | 06/24/21 19:47 | 07/02/21 11:33 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1695304 | 1 | 06/24/21 19:47 | 06/26/21 04:27 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1697149 | 1 | 06/30/21 08:20 | 07/01/21 10:52 | JDG | Mt. Juliet, TN |

## OS-1 (0-1) L1369649-09 Solid

Collected by: Andrew Garcia | Collected date/time: 06/21/21 11:00 | Received date/time: 06/23/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1696208 | 1 | 06/29/21 10:36 | 06/29/21 10:49 | CMK | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1700495 | 1 | 07/09/21 23:36 | 07/10/21 03:06 | GB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1698572 | 1 | 06/24/21 19:47 | 07/02/21 12:55 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1695304 | 1 | 06/24/21 19:47 | 06/26/21 04:46 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1697149 | 1 | 06/30/21 08:20 | 07/01/21 10:39 | JDG | Mt. Juliet, TN |

## OS-2 (0-1) L1369649-10 Solid

Collected by: Andrew Garcia | Collected date/time: 06/21/21 11:15 | Received date/time: 06/23/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1696208 | 1 | 06/29/21 10:36 | 06/29/21 10:49 | CMK | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1700495 | 1 | 07/09/21 23:36 | 07/10/21 03:25 | GB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1698572 | 1 | 06/24/21 19:47 | 07/02/21 13:16 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1695304 | 1 | 06/24/21 19:47 | 06/26/21 05:05 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1697149 | 1 | 06/30/21 08:20 | 07/01/21 15:31 | TJD | Mt. Juliet, TN |

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

## OS-3 (0-1) L1369649-11 Solid

Collected by: Andrew Garcia | Collected date/time: 06/21/21 11:30 | Received date/time: 06/23/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1696208 | 1 | 06/29/21 10:36 | 06/29/21 10:49 | CMK | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1700495 | 1 | 07/09/21 23:36 | 07/10/21 03:34 | GB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1698572 | 1 | 06/24/21 19:47 | 07/02/21 13:38 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1695304 | 1 | 06/24/21 19:47 | 06/26/21 05:24 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1697149 | 1 | 06/30/21 08:20 | 07/01/21 16:25 | TJD | Mt. Juliet, TN |

## OS-4 (0-1) L1369649-12 Solid

Collected by: Andrew Garcia | Collected date/time: 06/21/21 11:45 | Received date/time: 06/23/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1696208 | 1 | 06/29/21 10:36 | 06/29/21 10:49 | CMK | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1700495 | 1 | 07/09/21 23:36 | 07/10/21 03:44 | GB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1698572 | 1 | 06/24/21 19:47 | 07/02/21 13:59 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1695304 | 1 | 06/24/21 19:47 | 06/26/21 05:44 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1697149 | 1 | 06/30/21 08:20 | 07/01/21 11:17 | JDG | Mt. Juliet, TN |

## SW-1 L1369649-13 Solid

Collected by: Andrew Garcia | Collected date/time: 06/21/21 13:00 | Received date/time: 06/23/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1696208 | 1 | 06/29/21 10:36 | 06/29/21 10:49 | CMK | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1700495 | 1 | 07/09/21 23:36 | 07/10/21 03:53 | GB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1698572 | 1 | 06/24/21 19:47 | 07/02/21 14:21 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1695304 | 1 | 06/24/21 19:47 | 06/26/21 06:03 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1697149 | 1 | 06/30/21 08:20 | 07/01/21 09:48 | JDG | Mt. Juliet, TN |

## SW-2 L1369649-14 Solid

Collected by: Andrew Garcia | Collected date/time: 06/21/21 13:30 | Received date/time: 06/23/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1696209 | 1 | 06/29/21 10:54 | 06/29/21 11:07 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1700495 | 1 | 07/09/21 23:36 | 07/10/21 04:03 | GB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1698572 | 1 | 06/24/21 19:47 | 07/02/21 14:42 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1695304 | 1 | 06/24/21 19:47 | 06/26/21 06:22 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1697149 | 1 | 06/30/21 08:20 | 07/01/21 10:01 | JDG | Mt. Juliet, TN |

## SW-3 L1369649-15 Solid

Collected by: Andrew Garcia | Collected date/time: 06/21/21 14:00 | Received date/time: 06/23/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1696209 | 1 | 06/29/21 10:54 | 06/29/21 11:07 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1700495 | 1 | 07/09/21 23:36 | 07/10/21 04:12 | GB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1698572 | 1 | 06/24/21 19:47 | 07/02/21 15:04 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1698180 | 1 | 06/24/21 19:47 | 06/30/21 21:46 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1697149 | 4 | 06/30/21 08:20 | 07/01/21 17:16 | TJD | Mt. Juliet, TN |

## SW-4 L1369649-16 Solid

Collected by: Andrew Garcia | Collected date/time: 06/21/21 14:30 | Received date/time: 06/23/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1696209 | 1 | 06/29/21 10:54 | 06/29/21 11:07 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1700495 | 1 | 07/09/21 23:36 | 07/10/21 04:22 | GB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1698572 | 1 | 06/24/21 19:47 | 07/02/21 15:25 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1698180 | 1 | 06/24/21 19:47 | 06/30/21 22:04 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1697149 | 1 | 06/30/21 08:20 | 07/01/21 18:07 | TJD | Mt. Juliet, TN |

## SW-5 L1369649-17 Solid

Collected by: Andrew Garcia | Collected date/time: 06/21/21 15:00 | Received date/time: 06/23/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1696209 | 1 | 06/29/21 10:54 | 06/29/21 11:07 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1700495 | 1 | 07/09/21 23:36 | 07/10/21 04:34 | GB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1698572 | 1 | 06/24/21 19:47 | 07/02/21 15:47 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1695543 | 1 | 06/24/21 19:47 | 06/26/21 01:40 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1697149 | 1 | 06/30/21 08:20 | 07/01/21 16:51 | TJD | Mt. Juliet, TN |

## SW-6 L1369649-18 Solid

Collected by: Andrew Garcia | Collected date/time: 06/21/21 15:30 | Received date/time: 06/23/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1696209 | 1 | 06/29/21 10:54 | 06/29/21 11:07 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1700495 | 1 | 07/09/21 23:36 | 07/10/21 05:02 | GB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1698572 | 1 | 06/24/21 19:47 | 07/02/21 16:09 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1695543 | 1 | 06/24/21 19:47 | 06/26/21 01:59 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1697149 | 5 | 06/30/21 08:20 | 07/01/21 12:21 | JDG | Mt. Juliet, TN |

## SW-7 L1369649-19 Solid

Collected by: Andrew Garcia | Collected date/time: 06/21/21 16:00 | Received date/time: 06/23/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1696209 | 1 | 06/29/21 10:54 | 06/29/21 11:07 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1700495 | 1 | 07/09/21 23:36 | 07/10/21 05:12 | GB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1698572 | 1 | 06/24/21 19:47 | 07/02/21 16:52 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1695543 | 1 | 06/24/21 19:47 | 06/26/21 02:18 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1697958 | 5 | 06/30/21 18:00 | 07/03/21 02:27 | JDG | Mt. Juliet, TN |

## FS-1 (.5) L1369649-20 Solid

Collected by: Andrew Garcia | Collected date/time: 06/21/21 16:30 | Received date/time: 06/23/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1696209 | 1 | 06/29/21 10:54 | 06/29/21 11:07 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1700495 | 10 | 07/09/21 23:36 | 07/10/21 05:21 | GB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1698572 | 100 | 06/24/21 19:47 | 07/02/21 19:01 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1695543 | 8 | 06/24/21 19:47 | 06/26/21 03:15 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1697958 | 40 | 06/30/21 18:00 | 07/01/21 19:22 | CAG | Mt. Juliet, TN |

## FS-2 (.5) L1369649-21 Solid

Collected by: Andrew Garcia
Collected date/time: 06/21/21 17:00
Received date/time: 06/23/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1696209 | 1 | 06/29/21 10:54 | 06/29/21 11:07 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1700497 | 5 | 07/10/21 02:10 | 07/10/21 06:37 | GB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1699969 | 500 | 06/24/21 19:47 | 07/05/21 14:07 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1695543 | 8 | 06/24/21 19:47 | 06/26/21 03:34 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1697958 | 40 | 06/30/21 18:00 | 07/01/21 19:49 | CAG | Mt. Juliet, TN |

## FS-3 (1) L1369649-22 Solid

Collected by: Andrew Garcia
Collected date/time: 06/21/21 17:30
Received date/time: 06/23/21 08:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1696209 | 1 | 06/29/21 10:54 | 06/29/21 11:07 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1700497 | 5 | 07/10/21 02:10 | 07/10/21 06:47 | GB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1699969 | 500 | 06/24/21 19:47 | 07/05/21 14:30 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1695543 | 8 | 06/24/21 19:47 | 06/26/21 03:53 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1697958 | 40 | 06/30/21 18:00 | 07/01/21 20:17 | CAG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1697958 | 80 | 06/30/21 18:00 | 07/03/21 02:40 | JDG | Mt. Juliet, TN |

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

Chris McCord
Project Manager

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 97.8 | | 1 | 06/28/2021 16:04 | WG1696207 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 10.1 | J | 9.41 | 20.4 | 1 | 07/10/2021 01:30 | WG1700495 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0527 | J | 0.0222 | 0.102 | 1 | 07/01/2021 18:25 | WG1698564 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *86.5* | | | *77.0-120* | | *07/01/2021 18:25* | WG1698564 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000488 | 0.00104 | 1 | 06/25/2021 23:04 | WG1695304 |
| Toluene | U | | 0.00136 | 0.00522 | 1 | 06/25/2021 23:04 | WG1695304 |
| Ethylbenzene | U | | 0.000770 | 0.00261 | 1 | 06/25/2021 23:04 | WG1695304 |
| Total Xylenes | 0.00116 | J | 0.000919 | 0.00679 | 1 | 06/25/2021 23:04 | WG1695304 |
| *(S) Toluene-d8* | *106* | | | *75.0-131* | | *06/25/2021 23:04* | WG1695304 |
| *(S) 4-Bromofluorobenzene* | *85.8* | | | *67.0-138* | | *06/25/2021 23:04* | WG1695304 |
| *(S) 1,2-Dichloroethane-d4* | *113* | | | *70.0-130* | | *06/25/2021 23:04* | WG1695304 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 30.8 | | 3.29 | 8.18 | 2 | 07/01/2021 17:41 | WG1697149 |
| C28-C36 Motor Oil Range | 134 | | 0.560 | 8.18 | 2 | 07/01/2021 17:41 | WG1697149 |
| *(S) o-Terphenyl* | *65.8* | | | *18.0-148* | | *07/01/2021 17:41* | WG1697149 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 98.2 | | 1 | 06/28/2021 16:04 | WG1696207 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | U | | 9.37 | 20.4 | 1 | 07/10/2021 01:40 | WG1700495 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.0221 | 0.102 | 1 | 07/01/2021 18:47 | WG1698564 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *89.6* | | | *77.0-120* | | *07/01/2021 18:47* | WG1698564 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000484 | 0.00104 | 1 | 06/25/2021 23:23 | WG1695304 |
| Toluene | U | | 0.00135 | 0.00519 | 1 | 06/25/2021 23:23 | WG1695304 |
| Ethylbenzene | U | | 0.000764 | 0.00259 | 1 | 06/25/2021 23:23 | WG1695304 |
| Total Xylenes | U | | 0.000913 | 0.00674 | 1 | 06/25/2021 23:23 | WG1695304 |
| *(S) Toluene-d8* | *105* | | | *75.0-131* | | *06/25/2021 23:23* | WG1695304 |
| *(S) 4-Bromofluorobenzene* | *85.7* | | | *67.0-138* | | *06/25/2021 23:23* | WG1695304 |
| *(S) 1,2-Dichloroethane-d4* | *113* | | | *70.0-130* | | *06/25/2021 23:23* | WG1695304 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 15.6 | | 1.64 | 4.07 | 1 | 07/01/2021 16:00 | WG1697149 |
| C28-C36 Motor Oil Range | 36.4 | | 0.279 | 4.07 | 1 | 07/01/2021 16:00 | WG1697149 |
| *(S) o-Terphenyl* | *55.8* | | | *18.0-148* | | *07/01/2021 16:00* | WG1697149 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 98.1 | | 1 | 06/28/2021 16:04 | WG1696207 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | U | | 9.38 | 20.4 | 1 | 07/10/2021 01:49 | WG1700495 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.0221 | 0.102 | 1 | 07/01/2021 19:09 | WG1698564 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *89.6* | | | *77.0-120* | | *07/01/2021 19:09* | WG1698564 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | 0.000494 | J | 0.000486 | 0.00104 | 1 | 06/25/2021 23:42 | WG1695304 |
| Toluene | U | | 0.00135 | 0.00520 | 1 | 06/25/2021 23:42 | WG1695304 |
| Ethylbenzene | U | | 0.000766 | 0.00260 | 1 | 06/25/2021 23:42 | WG1695304 |
| Total Xylenes | U | | 0.000915 | 0.00676 | 1 | 06/25/2021 23:42 | WG1695304 |
| *(S) Toluene-d8* | *107* | | | *75.0-131* | | *06/25/2021 23:42* | WG1695304 |
| *(S) 4-Bromofluorobenzene* | *84.1* | | | *67.0-138* | | *06/25/2021 23:42* | WG1695304 |
| *(S) 1,2-Dichloroethane-d4* | *117* | | | *70.0-130* | | *06/25/2021 23:42* | WG1695304 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 6.33 | | 1.64 | 4.08 | 1 | 07/01/2021 09:35 | WG1697149 |
| C28-C36 Motor Oil Range | 20.3 | | 0.279 | 4.08 | 1 | 07/01/2021 09:35 | WG1697149 |
| *(S) o-Terphenyl* | *69.4* | | | *18.0-148* | | *07/01/2021 09:35* | WG1697149 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 96.1 | | 1 | 06/29/2021 10:49 | WG1696208 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 46.9 | | 9.57 | 20.8 | 1 | 07/10/2021 01:59 | WG1700495 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.134 | | 0.0226 | 0.104 | 1 | 07/02/2021 09:49 | WG1698572 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-120* | | *07/02/2021 09:49* | WG1698572 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000505 | 0.00108 | 1 | 06/26/2021 00:01 | WG1695304 |
| Toluene | U | | 0.00141 | 0.00540 | 1 | 06/26/2021 00:01 | WG1695304 |
| Ethylbenzene | U | | 0.000797 | 0.00270 | 1 | 06/26/2021 00:01 | WG1695304 |
| Total Xylenes | 0.00109 | J | 0.000951 | 0.00703 | 1 | 06/26/2021 00:01 | WG1695304 |
| *(S) Toluene-d8* | *103* | | | *75.0-131* | | *06/26/2021 00:01* | WG1695304 |
| *(S) 4-Bromofluorobenzene* | *88.4* | | | *67.0-138* | | *06/26/2021 00:01* | WG1695304 |
| *(S) 1,2-Dichloroethane-d4* | *107* | | | *70.0-130* | | *06/26/2021 00:01* | WG1695304 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 26.6 | | 1.67 | 4.16 | 1 | 07/01/2021 11:05 | WG1697149 |
| C28-C36 Motor Oil Range | 49.2 | | 0.285 | 4.16 | 1 | 07/01/2021 11:05 | WG1697149 |
| *(S) o-Terphenyl* | *41.5* | | | *18.0-148* | | *07/01/2021 11:05* | WG1697149 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.4 | | 1 | 06/29/2021 10:49 | WG1696208 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 31.3 | | 9.95 | 21.6 | 1 | 07/10/2021 02:08 | WG1700495 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0498 | J | 0.0235 | 0.108 | 1 | 07/02/2021 10:28 | WG1698572 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *103* | | | *77.0-120* | | *07/02/2021 10:28* | WG1698572 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000544 | 0.00117 | 1 | 06/26/2021 00:20 | WG1695304 |
| Toluene | U | | 0.00151 | 0.00583 | 1 | 06/26/2021 00:20 | WG1695304 |
| Ethylbenzene | U | | 0.000859 | 0.00291 | 1 | 06/26/2021 00:20 | WG1695304 |
| Total Xylenes | U | | 0.00103 | 0.00757 | 1 | 06/26/2021 00:20 | WG1695304 |
| *(S) Toluene-d8* | *107* | | | *75.0-131* | | *06/26/2021 00:20* | WG1695304 |
| *(S) 4-Bromofluorobenzene* | *87.9* | | | *67.0-138* | | *06/26/2021 00:20* | WG1695304 |
| *(S) 1,2-Dichloroethane-d4* | *116* | | | *70.0-130* | | *06/26/2021 00:20* | WG1695304 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 10.1 | | 1.74 | 4.33 | 1 | 07/01/2021 10:26 | WG1697149 |
| C28-C36 Motor Oil Range | 24.7 | | 0.296 | 4.33 | 1 | 07/01/2021 10:26 | WG1697149 |
| *(S) o-Terphenyl* | *52.5* | | | *18.0-148* | | *07/01/2021 10:26* | WG1697149 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 97.5 | | 1 | 06/29/2021 10:49 | WG1696208 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 59.3 | | 9.43 | 20.5 | 1 | 07/10/2021 02:18 | WG1700495 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.0223 | 0.103 | 1 | 07/02/2021 10:50 | WG1698572 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *104* | | | *77.0-120* | | *07/02/2021 10:50* | WG1698572 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000491 | 0.00105 | 1 | 06/26/2021 00:39 | WG1695304 |
| Toluene | U | | 0.00137 | 0.00525 | 1 | 06/26/2021 00:39 | WG1695304 |
| Ethylbenzene | U | | 0.000775 | 0.00263 | 1 | 06/26/2021 00:39 | WG1695304 |
| Total Xylenes | U | | 0.000925 | 0.00683 | 1 | 06/26/2021 00:39 | WG1695304 |
| *(S) Toluene-d8* | *106* | | | *75.0-131* | | *06/26/2021 00:39* | WG1695304 |
| *(S) 4-Bromofluorobenzene* | *85.2* | | | *67.0-138* | | *06/26/2021 00:39* | WG1695304 |
| *(S) 1,2-Dichloroethane-d4* | *118* | | | *70.0-130* | | *06/26/2021 00:39* | WG1695304 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 2.23 | J | 1.65 | 4.10 | 1 | 07/01/2021 09:23 | WG1697149 |
| C28-C36 Motor Oil Range | 5.96 | | 0.281 | 4.10 | 1 | 07/01/2021 09:23 | WG1697149 |
| *(S) o-Terphenyl* | *65.2* | | | *18.0-148* | | *07/01/2021 09:23* | WG1697149 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 97.7 | | 1 | 06/29/2021 10:49 | WG1696208 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | U | | 9.42 | 20.5 | 1 | 07/10/2021 02:27 | WG1700495 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0315 | J | 0.0222 | 0.102 | 1 | 07/02/2021 11:12 | WG1698572 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *103* | | | *77.0-120* | | *07/02/2021 11:12* | WG1698572 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | 0.000524 | J | 0.000489 | 0.00105 | 1 | 06/26/2021 00:58 | WG1695304 |
| Toluene | U | | 0.00136 | 0.00524 | 1 | 06/26/2021 00:58 | WG1695304 |
| Ethylbenzene | U | | 0.000772 | 0.00262 | 1 | 06/26/2021 00:58 | WG1695304 |
| Total Xylenes | 0.00134 | J | 0.000922 | 0.00681 | 1 | 06/26/2021 00:58 | WG1695304 |
| *(S) Toluene-d8* | *104* | | | *75.0-131* | | *06/26/2021 00:58* | WG1695304 |
| *(S) 4-Bromofluorobenzene* | *89.7* | | | *67.0-138* | | *06/26/2021 00:58* | WG1695304 |
| *(S) 1,2-Dichloroethane-d4* | *129* | | | *70.0-130* | | *06/26/2021 00:58* | WG1695304 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 20.0 | J | 16.5 | 41.0 | 10 | 07/01/2021 15:47 | WG1697149 |
| C28-C36 Motor Oil Range | 94.8 | | 2.81 | 41.0 | 10 | 07/01/2021 15:47 | WG1697149 |
| *(S) o-Terphenyl* | *65.9* | | | *18.0-148* | | *07/01/2021 15:47* | WG1697149 |

Sample Narrative:

L1369649-07 WG1697149: Dilution due to matrix impact during extract concentration procedure

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 97.6 | | 1 | 06/29/2021 10:49 | WG1696208 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 19.9 | J | 9.42 | 20.5 | 1 | 07/10/2021 02:37 | WG1700495 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0269 | J | 0.0222 | 0.102 | 1 | 07/02/2021 11:33 | WG1698572 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.7* | | | *77.0-120* | | *07/02/2021 11:33* | WG1698572 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000490 | 0.00105 | 1 | 06/26/2021 04:27 | WG1695304 |
| Toluene | U | | 0.00136 | 0.00525 | 1 | 06/26/2021 04:27 | WG1695304 |
| Ethylbenzene | U | | 0.000773 | 0.00262 | 1 | 06/26/2021 04:27 | WG1695304 |
| Total Xylenes | 0.000935 | J | 0.000923 | 0.00682 | 1 | 06/26/2021 04:27 | WG1695304 |
| *(S) Toluene-d8* | *106* | | | *75.0-131* | | *06/26/2021 04:27* | WG1695304 |
| *(S) 4-Bromofluorobenzene* | *85.1* | | | *67.0-138* | | *06/26/2021 04:27* | WG1695304 |
| *(S) 1,2-Dichloroethane-d4* | *105* | | | *70.0-130* | | *06/26/2021 04:27* | WG1695304 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 8.84 | | 1.65 | 4.10 | 1 | 07/01/2021 10:52 | WG1697149 |
| C28-C36 Motor Oil Range | 30.6 | | 0.281 | 4.10 | 1 | 07/01/2021 10:52 | WG1697149 |
| *(S) o-Terphenyl* | *46.3* | | | *18.0-148* | | *07/01/2021 10:52* | WG1697149 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 97.4 | | 1 | 06/29/2021 10:49 | WG1696208 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | U | | 9.45 | 20.5 | 1 | 07/10/2021 03:06 | WG1700495 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.127 | | 0.0223 | 0.103 | 1 | 07/02/2021 12:55 | WG1698572 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.2* | | | *77.0-120* | | *07/02/2021 12:55* | WG1698572 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000492 | 0.00105 | 1 | 06/26/2021 04:46 | WG1695304 |
| Toluene | U | | 0.00137 | 0.00527 | 1 | 06/26/2021 04:46 | WG1695304 |
| Ethylbenzene | U | | 0.000776 | 0.00263 | 1 | 06/26/2021 04:46 | WG1695304 |
| Total Xylenes | 0.00446 | J | 0.000927 | 0.00685 | 1 | 06/26/2021 04:46 | WG1695304 |
| *(S) Toluene-d8* | *108* | | | *75.0-131* | | *06/26/2021 04:46* | WG1695304 |
| *(S) 4-Bromofluorobenzene* | *88.0* | | | *67.0-138* | | *06/26/2021 04:46* | WG1695304 |
| *(S) 1,2-Dichloroethane-d4* | *112* | | | *70.0-130* | | *06/26/2021 04:46* | WG1695304 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 5.22 | | 1.65 | 4.11 | 1 | 07/01/2021 10:39 | WG1697149 |
| C28-C36 Motor Oil Range | 17.5 | | 0.281 | 4.11 | 1 | 07/01/2021 10:39 | WG1697149 |
| *(S) o-Terphenyl* | *57.5* | | | *18.0-148* | | *07/01/2021 10:39* | WG1697149 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 98.5 | | 1 | 06/29/2021 10:49 | WG1696208 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | U | | 9.34 | 20.3 | 1 | 07/10/2021 03:25 | WG1700495 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0990 | J | 0.0220 | 0.102 | 1 | 07/02/2021 13:16 | WG1698572 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *103* | | | *77.0-120* | | *07/02/2021 13:16* | WG1698572 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000481 | 0.00103 | 1 | 06/26/2021 05:05 | WG1695304 |
| Toluene | U | | 0.00134 | 0.00515 | 1 | 06/26/2021 05:05 | WG1695304 |
| Ethylbenzene | U | | 0.000759 | 0.00258 | 1 | 06/26/2021 05:05 | WG1695304 |
| Total Xylenes | U | | 0.000907 | 0.00670 | 1 | 06/26/2021 05:05 | WG1695304 |
| *(S) Toluene-d8* | *108* | | | *75.0-131* | | *06/26/2021 05:05* | WG1695304 |
| *(S) 4-Bromofluorobenzene* | *86.7* | | | *67.0-138* | | *06/26/2021 05:05* | WG1695304 |
| *(S) 1,2-Dichloroethane-d4* | *107* | | | *70.0-130* | | *06/26/2021 05:05* | WG1695304 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 2.09 | J J3 J6 | 1.63 | 4.06 | 1 | 07/01/2021 15:31 | WG1697149 |
| C28-C36 Motor Oil Range | 8.75 | | 0.278 | 4.06 | 1 | 07/01/2021 15:31 | WG1697149 |
| *(S) o-Terphenyl* | *53.0* | | | *18.0-148* | | *07/01/2021 15:31* | WG1697149 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 95.7 | | 1 | 06/29/2021 10:49 | WG1696208 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | U | | 9.61 | 20.9 | 1 | 07/10/2021 03:34 | WG1700495 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0938 | J | 0.0227 | 0.104 | 1 | 07/02/2021 13:38 | WG1698572 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *103* | | | *77.0-120* | | *07/02/2021 13:38* | WG1698572 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000509 | 0.00109 | 1 | 06/26/2021 05:24 | WG1695304 |
| Toluene | U | | 0.00142 | 0.00545 | 1 | 06/26/2021 05:24 | WG1695304 |
| Ethylbenzene | U | | 0.000804 | 0.00273 | 1 | 06/26/2021 05:24 | WG1695304 |
| Total Xylenes | U | | 0.000959 | 0.00709 | 1 | 06/26/2021 05:24 | WG1695304 |
| *(S) Toluene-d8* | *104* | | | *75.0-131* | | *06/26/2021 05:24* | WG1695304 |
| *(S) 4-Bromofluorobenzene* | *89.1* | | | *67.0-138* | | *06/26/2021 05:24* | WG1695304 |
| *(S) 1,2-Dichloroethane-d4* | *124* | | | *70.0-130* | | *06/26/2021 05:24* | WG1695304 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 16.7 | | 1.68 | 4.18 | 1 | 07/01/2021 16:25 | WG1697149 |
| C28-C36 Motor Oil Range | 42.9 | | 0.286 | 4.18 | 1 | 07/01/2021 16:25 | WG1697149 |
| *(S) o-Terphenyl* | *60.6* | | | *18.0-148* | | *07/01/2021 16:25* | WG1697149 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 97.3 | | 1 | 06/29/2021 10:49 | WG1696208 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | U | | 9.45 | 20.6 | 1 | 07/10/2021 03:44 | WG1700495 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0892 | J | 0.0223 | 0.103 | 1 | 07/02/2021 13:59 | WG1698572 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-120* | | *07/02/2021 13:59* | WG1698572 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000493 | 0.00106 | 1 | 06/26/2021 05:44 | WG1695304 |
| Toluene | U | | 0.00137 | 0.00528 | 1 | 06/26/2021 05:44 | WG1695304 |
| Ethylbenzene | U | | 0.000778 | 0.00264 | 1 | 06/26/2021 05:44 | WG1695304 |
| Total Xylenes | 0.00106 | J | 0.000929 | 0.00686 | 1 | 06/26/2021 05:44 | WG1695304 |
| *(S) Toluene-d8* | *108* | | | *75.0-131* | | *06/26/2021 05:44* | WG1695304 |
| *(S) 4-Bromofluorobenzene* | *85.5* | | | *67.0-138* | | *06/26/2021 05:44* | WG1695304 |
| *(S) 1,2-Dichloroethane-d4* | *108* | | | *70.0-130* | | *06/26/2021 05:44* | WG1695304 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 9.24 | | 1.65 | 4.11 | 1 | 07/01/2021 11:17 | WG1697149 |
| C28-C36 Motor Oil Range | 29.9 | | 0.282 | 4.11 | 1 | 07/01/2021 11:17 | WG1697149 |
| *(S) o-Terphenyl* | *62.8* | | | *18.0-148* | | *07/01/2021 11:17* | WG1697149 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 97.7 | | 1 | 06/29/2021 10:49 | WG1696208 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 73.4 | | 9.42 | 20.5 | 1 | 07/10/2021 03:53 | WG1700495 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0380 | J | 0.0222 | 0.102 | 1 | 07/02/2021 14:21 | WG1698572 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* | | *07/02/2021 14:21* | WG1698572 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000489 | 0.00105 | 1 | 06/26/2021 06:03 | WG1695304 |
| Toluene | U | | 0.00136 | 0.00524 | 1 | 06/26/2021 06:03 | WG1695304 |
| Ethylbenzene | U | | 0.000772 | 0.00262 | 1 | 06/26/2021 06:03 | WG1695304 |
| Total Xylenes | 0.00118 | J | 0.000922 | 0.00681 | 1 | 06/26/2021 06:03 | WG1695304 |
| *(S) Toluene-d8* | *108* | | | *75.0-131* | | *06/26/2021 06:03* | WG1695304 |
| *(S) 4-Bromofluorobenzene* | *84.5* | | | *67.0-138* | | *06/26/2021 06:03* | WG1695304 |
| *(S) 1,2-Dichloroethane-d4* | *110* | | | *70.0-130* | | *06/26/2021 06:03* | WG1695304 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 9.46 | | 1.65 | 4.10 | 1 | 07/01/2021 09:48 | WG1697149 |
| C28-C36 Motor Oil Range | 21.5 | | 0.281 | 4.10 | 1 | 07/01/2021 09:48 | WG1697149 |
| *(S) o-Terphenyl* | *54.4* | | | *18.0-148* | | *07/01/2021 09:48* | WG1697149 |

SW-2
Collected date/time: 06/21/21 13:30
L1369649

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 96.2 | | 1 | 06/29/2021 11:07 | WG1696209 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 255 | | 9.57 | 20.8 | 1 | 07/10/2021 04:03 | WG1700495 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.183 | | 0.0226 | 0.104 | 1 | 07/02/2021 14:42 | WG1698572 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* | | *07/02/2021 14:42* | WG1698572 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000504 | 0.00108 | 1 | 06/26/2021 06:22 | WG1695304 |
| Toluene | U | | 0.00140 | 0.00540 | 1 | 06/26/2021 06:22 | WG1695304 |
| Ethylbenzene | 0.00167 | J | 0.000796 | 0.00270 | 1 | 06/26/2021 06:22 | WG1695304 |
| Total Xylenes | 0.00340 | J | 0.000950 | 0.00702 | 1 | 06/26/2021 06:22 | WG1695304 |
| *(S) Toluene-d8* | *108* | | | *75.0-131* | | *06/26/2021 06:22* | WG1695304 |
| *(S) 4-Bromofluorobenzene* | *89.7* | | | *67.0-138* | | *06/26/2021 06:22* | WG1695304 |
| *(S) 1,2-Dichloroethane-d4* | *110* | | | *70.0-130* | | *06/26/2021 06:22* | WG1695304 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 80.3 | | 1.67 | 4.16 | 1 | 07/01/2021 10:01 | WG1697149 |
| C28-C36 Motor Oil Range | 96.9 | | 0.285 | 4.16 | 1 | 07/01/2021 10:01 | WG1697149 |
| *(S) o-Terphenyl* | *46.7* | | | *18.0-148* | | *07/01/2021 10:01* | WG1697149 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 97.6 | | 1 | 06/29/2021 11:07 | WG1696209 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 223 | | 9.42 | 20.5 | 1 | 07/10/2021 04:12 | WG1700495 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.368 | | 0.0222 | 0.102 | 1 | 07/02/2021 15:04 | WG1698572 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *100* | | | *77.0-120* | | *07/02/2021 15:04* | WG1698572 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | 0.000682 | J | 0.000490 | 0.00105 | 1 | 06/30/2021 21:46 | WG1698180 |
| Toluene | 0.00480 | J | 0.00136 | 0.00524 | 1 | 06/30/2021 21:46 | WG1698180 |
| Ethylbenzene | 0.0294 | | 0.000773 | 0.00262 | 1 | 06/30/2021 21:46 | WG1698180 |
| Total Xylenes | 0.0776 | | 0.000923 | 0.00682 | 1 | 06/30/2021 21:46 | WG1698180 |
| *(S) Toluene-d8* | *99.9* | | | *75.0-131* | | *06/30/2021 21:46* | WG1698180 |
| *(S) 4-Bromofluorobenzene* | *100* | | | *67.0-138* | | *06/30/2021 21:46* | WG1698180 |
| *(S) 1,2-Dichloroethane-d4* | *112* | | | *70.0-130* | | *06/30/2021 21:46* | WG1698180 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 66.3 | | 6.60 | 16.4 | 4 | 07/01/2021 17:16 | WG1697149 |
| C28-C36 Motor Oil Range | 228 | | 1.13 | 16.4 | 4 | 07/01/2021 17:16 | WG1697149 |
| *(S) o-Terphenyl* | *69.2* | | | *18.0-148* | | *07/01/2021 17:16* | WG1697149 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 97.6 | | 1 | 06/29/2021 11:07 | WG1696209 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 55.0 | | 9.42 | 20.5 | 1 | 07/10/2021 04:22 | WG1700495 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0697 | J | 0.0222 | 0.102 | 1 | 07/02/2021 15:25 | WG1698572 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* | | *07/02/2021 15:25* | WG1698572 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000490 | 0.00105 | 1 | 06/30/2021 22:04 | WG1698180 |
| Toluene | 0.00187 | J | 0.00136 | 0.00524 | 1 | 06/30/2021 22:04 | WG1698180 |
| Ethylbenzene | 0.00223 | J | 0.000773 | 0.00262 | 1 | 06/30/2021 22:04 | WG1698180 |
| Total Xylenes | 0.00596 | J | 0.000923 | 0.00682 | 1 | 06/30/2021 22:04 | WG1698180 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *06/30/2021 22:04* | WG1698180 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *67.0-138* | | *06/30/2021 22:04* | WG1698180 |
| *(S) 1,2-Dichloroethane-d4* | *107* | | | *70.0-130* | | *06/30/2021 22:04* | WG1698180 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 20.2 | | 1.65 | 4.10 | 1 | 07/01/2021 18:07 | WG1697149 |
| C28-C36 Motor Oil Range | 97.1 | | 0.281 | 4.10 | 1 | 07/01/2021 18:07 | WG1697149 |
| *(S) o-Terphenyl* | *68.4* | | | *18.0-148* | | *07/01/2021 18:07* | WG1697149 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 96.0 | | 1 | 06/29/2021 11:07 | WG1696209 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 53.4 | | 9.58 | 20.8 | 1 | 07/10/2021 04:34 | WG1700495 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0243 | J | 0.0226 | 0.104 | 1 | 07/02/2021 15:47 | WG1698572 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* | | *07/02/2021 15:47* | WG1698572 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000506 | 0.00108 | 1 | 06/26/2021 01:40 | WG1695543 |
| Toluene | U | | 0.00141 | 0.00541 | 1 | 06/26/2021 01:40 | WG1695543 |
| Ethylbenzene | U | | 0.000798 | 0.00271 | 1 | 06/26/2021 01:40 | WG1695543 |
| Total Xylenes | U | | 0.000953 | 0.00704 | 1 | 06/26/2021 01:40 | WG1695543 |
| *(S) Toluene-d8* | *107* | | | *75.0-131* | | *06/26/2021 01:40* | WG1695543 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *67.0-138* | | *06/26/2021 01:40* | WG1695543 |
| *(S) 1,2-Dichloroethane-d4* | *93.6* | | | *70.0-130* | | *06/26/2021 01:40* | WG1695543 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 13.4 | | 1.68 | 4.17 | 1 | 07/01/2021 16:51 | WG1697149 |
| C28-C36 Motor Oil Range | 57.0 | | 0.285 | 4.17 | 1 | 07/01/2021 16:51 | WG1697149 |
| *(S) o-Terphenyl* | *60.6* | | | *18.0-148* | | *07/01/2021 16:51* | WG1697149 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 98.1 | | 1 | 06/29/2021 11:07 | WG1696209 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 166 | | 9.38 | 20.4 | 1 | 07/10/2021 05:02 | WG1700495 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0392 | J | 0.0221 | 0.102 | 1 | 07/02/2021 16:09 | WG1698572 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* | | *07/02/2021 16:09* | WG1698572 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000486 | 0.00104 | 1 | 06/26/2021 01:59 | WG1695543 |
| Toluene | U | | 0.00135 | 0.00520 | 1 | 06/26/2021 01:59 | WG1695543 |
| Ethylbenzene | U | | 0.000766 | 0.00260 | 1 | 06/26/2021 01:59 | WG1695543 |
| Total Xylenes | U | | 0.000915 | 0.00676 | 1 | 06/26/2021 01:59 | WG1695543 |
| *(S) Toluene-d8* | *104* | | | *75.0-131* | | *06/26/2021 01:59* | WG1695543 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *67.0-138* | | *06/26/2021 01:59* | WG1695543 |
| *(S) 1,2-Dichloroethane-d4* | *95.4* | | | *70.0-130* | | *06/26/2021 01:59* | WG1695543 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 38.3 | | 8.21 | 20.4 | 5 | 07/01/2021 12:21 | WG1697149 |
| C28-C36 Motor Oil Range | 98.4 | | 1.40 | 20.4 | 5 | 07/01/2021 12:21 | WG1697149 |
| *(S) o-Terphenyl* | *58.2* | | | *18.0-148* | | *07/01/2021 12:21* | WG1697149 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 95.9 | | 1 | 06/29/2021 11:07 | WG1696209 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 183 | | 9.60 | 20.9 | 1 | 07/10/2021 05:12 | WG1700495 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.168 | | 0.0226 | 0.104 | 1 | 07/02/2021 16:52 | WG1698572 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.4* | | | *77.0-120* | | *07/02/2021 16:52* | WG1698572 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000507 | 0.00109 | 1 | 06/26/2021 02:18 | WG1695543 |
| Toluene | U | | 0.00141 | 0.00543 | 1 | 06/26/2021 02:18 | WG1695543 |
| Ethylbenzene | U | | 0.000801 | 0.00272 | 1 | 06/26/2021 02:18 | WG1695543 |
| Total Xylenes | 0.00417 | J | 0.000956 | 0.00706 | 1 | 06/26/2021 02:18 | WG1695543 |
| *(S) Toluene-d8* | *108* | | | *75.0-131* | | *06/26/2021 02:18* | WG1695543 |
| *(S) 4-Bromofluorobenzene* | *98.2* | | | *67.0-138* | | *06/26/2021 02:18* | WG1695543 |
| *(S) 1,2-Dichloroethane-d4* | *95.1* | | | *70.0-130* | | *06/26/2021 02:18* | WG1695543 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 410 | | 8.40 | 20.9 | 5 | 07/03/2021 02:27 | WG1697958 |
| C28-C36 Motor Oil Range | 360 | | 1.43 | 20.9 | 5 | 07/03/2021 02:27 | WG1697958 |
| *(S) o-Terphenyl* | *89.0* | | | *18.0-148* | | *07/03/2021 02:27* | WG1697958 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.8 | | 1 | 06/29/2021 11:07 | WG1696209 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 5720 | V | 107 | 233 | 10 | 07/10/2021 05:21 | WG1700495 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 804 | | 2.89 | 13.3 | 100 | 07/02/2021 19:01 | WG1698572 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.9* | | | *77.0-120* | | *07/02/2021 19:01* | WG1698572 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.00499 | 0.0107 | 8 | 06/26/2021 03:15 | WG1695543 |
| Toluene | 0.180 | | 0.0139 | 0.0533 | 8 | 06/26/2021 03:15 | WG1695543 |
| Ethylbenzene | 2.17 | | 0.00787 | 0.0267 | 8 | 06/26/2021 03:15 | WG1695543 |
| Total Xylenes | 5.44 | | 0.00939 | 0.0694 | 8 | 06/26/2021 03:15 | WG1695543 |
| *(S) Toluene-d8* | *99.1* | | | *75.0-131* | | *06/26/2021 03:15* | WG1695543 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *06/26/2021 03:15* | WG1695543 |
| *(S) 1,2-Dichloroethane-d4* | *98.8* | | | *70.0-130* | | *06/26/2021 03:15* | WG1695543 |

Sample Narrative:

L1369649-20 WG1695543: Non-target compounds too high to run at a lower dilution.

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 5980 | | 75.1 | 187 | 40 | 07/01/2021 19:22 | WG1697958 |
| C28-C36 Motor Oil Range | 3940 | | 12.8 | 187 | 40 | 07/01/2021 19:22 | WG1697958 |
| *(S) o-Terphenyl* | *0.000* | J7 | | *18.0-148* | | *07/01/2021 19:22* | WG1697958 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.8 | | 1 | 06/29/2021 11:07 | WG1696209 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 3910 | | 53.6 | 117 | 5 | 07/10/2021 06:37 | WG1700497 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 573 | | 14.5 | 66.6 | 500 | 07/05/2021 14:07 | WG1699969 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.6* | | | *77.0-120* | | *07/05/2021 14:07* | WG1699969 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.00498 | 0.0107 | 8 | 06/26/2021 03:34 | WG1695543 |
| Toluene | 0.0161 | J | 0.0139 | 0.0533 | 8 | 06/26/2021 03:34 | WG1695543 |
| Ethylbenzene | 0.127 | | 0.00786 | 0.0266 | 8 | 06/26/2021 03:34 | WG1695543 |
| Total Xylenes | 2.64 | | 0.00938 | 0.0693 | 8 | 06/26/2021 03:34 | WG1695543 |
| *(S) Toluene-d8* | *99.9* | | | *75.0-131* | | *06/26/2021 03:34* | WG1695543 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *67.0-138* | | *06/26/2021 03:34* | WG1695543 |
| *(S) 1,2-Dichloroethane-d4* | *98.1* | | | *70.0-130* | | *06/26/2021 03:34* | WG1695543 |

Sample Narrative:

L1369649-21 WG1695543: Non-target compounds too high to run at a lower dilution.

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 7220 | | 75.0 | 186 | 40 | 07/01/2021 19:49 | WG1697958 |
| C28-C36 Motor Oil Range | 5080 | | 12.8 | 186 | 40 | 07/01/2021 19:49 | WG1697958 |
| *(S) o-Terphenyl* | *0.000* | J7 | | *18.0-148* | | *07/01/2021 19:49* | WG1697958 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.2 | | 1 | 06/29/2021 11:07 | WG1696209 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 2980 | | 49.9 | 108 | 5 | 07/10/2021 06:47 | WG1700497 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 839 | | 12.8 | 58.5 | 500 | 07/05/2021 14:30 | WG1699969 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.2* | | | *77.0-120* | | *07/05/2021 14:30* | WG1699969 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | 0.0695 | | 0.00438 | 0.00936 | 8 | 06/26/2021 03:53 | WG1695543 |
| Toluene | 3.42 | | 0.0122 | 0.0468 | 8 | 06/26/2021 03:53 | WG1695543 |
| Ethylbenzene | 8.06 | | 0.00690 | 0.0234 | 8 | 06/26/2021 03:53 | WG1695543 |
| Total Xylenes | 16.0 | | 0.00824 | 0.0608 | 8 | 06/26/2021 03:53 | WG1695543 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* | | *06/26/2021 03:53* | WG1695543 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *67.0-138* | | *06/26/2021 03:53* | WG1695543 |
| *(S) 1,2-Dichloroethane-d4* | *96.4* | | | *70.0-130* | | *06/26/2021 03:53* | WG1695543 |

Sample Narrative:

L1369649-22 WG1695543: Non-target compounds too high to run at a lower dilution.

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 13200 | | 69.9 | 174 | 40 | 07/01/2021 20:17 | WG1697958 |
| C28-C36 Motor Oil Range | 8060 | | 23.8 | 347 | 80 | 07/03/2021 02:40 | WG1697958 |
| *(S) o-Terphenyl* | *0.000* | J7 | | *18.0-148* | | *07/03/2021 02:40* | WG1697958 |
| *(S) o-Terphenyl* | *0.000* | J7 | | *18.0-148* | | *07/01/2021 20:17* | WG1697958 |

## Method Blank (MB)

(MB) R3673248-1 06/28/21 16:04

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00200 | | | |

## L1369625-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1369625-03 06/28/21 16:04 • (DUP) R3673248-3 06/28/21 16:04

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 99.5 | 99.4 | 1 | 0.0755 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R3673248-2 06/28/21 16:04

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

## Method Blank (MB)

(MB) R3673786-1 06/29/21 10:49

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00100 | | | |

## L1369649-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1369649-07 06/29/21 10:49 • (DUP) R3673786-3 06/29/21 10:49

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 97.7 | 97.7 | 1 | 0.00502 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R3673786-2 06/29/21 10:49

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

## Method Blank (MB)

(MB) R3673760-1 06/29/21 11:07

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00200 | | | |

## L1369649-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1369649-17 06/29/21 11:07 • (DUP) R3673760-3 06/29/21 11:07

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 96.0 | 95.8 | 1 | 0.210 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R3673760-2 06/29/21 11:07

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.1 | 100 | 85.0-115 | |

## Method Blank (MB)

(MB) R3677843-1 07/10/21 01:12

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Chloride | U | | 9.20 | 20.0 |

## L1369649-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1369649-09 07/10/21 03:06 • (DUP) R3677843-3 07/10/21 03:15

| Analyte | Original Result (dry) mg/kg | DUP Result (dry) mg/kg | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Chloride | U | U | 1 | 0.000 | | 20 |

## L1369649-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1369649-20 07/10/21 05:21 • (DUP) R3677843-4 07/10/21 05:31

| Analyte | Original Result (dry) mg/kg | DUP Result (dry) mg/kg | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Chloride | 5720 | 6910 | 10 | 18.8 | | 20 |

## Laboratory Control Sample (LCS)

(LCS) R3677843-2 07/10/21 01:21

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Chloride | 200 | 193 | 96.7 | 90.0-110 | |

## L1369649-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1369649-20 07/10/21 05:21 • (MS) R3677843-5 07/10/21 05:40 • (MSD) R3677843-6 07/10/21 05:50

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 583 | 5720 | 7060 | 6940 | 229 | 209 | 10 | 80.0-120 | V | V | 1.70 | 20 |

## Method Blank (MB)

(MB) R3677844-1 07/10/21 06:18

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Chloride | U | | 9.20 | 20.0 |

## L1369851-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1369851-04 07/10/21 07:34 • (DUP) R3677844-3 07/10/21 07:44

| Analyte | Original Result (dry) mg/kg | DUP Result (dry) mg/kg | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Chloride | 351 | 347 | 1 | 1.23 | | 20 |

## L1369851-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1369851-14 07/10/21 09:38 • (DUP) R3677844-5 07/10/21 10:16

| Analyte | Original Result (dry) mg/kg | DUP Result (dry) mg/kg | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Chloride | 11000 | 10800 | 10 | 1.99 | | 20 |

## Laboratory Control Sample (LCS)

(LCS) R3677844-2 07/10/21 06:28

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Chloride | 200 | 195 | 97.3 | 90.0-110 | |

## L1369851-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1369851-14 07/10/21 09:38 • (MS) R3677844-4 07/10/21 10:07 • (MSD) R3677844-6 07/10/21 10:26

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 717 | 11000 | 13900 | 16000 | 403 | 706 | 10 | 80.0-120 | V | E V | 14.5 | 20 |

## Method Blank (MB)

(MB) R3674869-2 07/01/21 13:00

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPH (GC/FID) Low Fraction | U | | 0.0217 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *91.5* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R3674869-1 07/01/21 12:16

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPH (GC/FID) Low Fraction | 5.50 | 6.47 | 118 | 72.0-127 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *112* | *77.0-120* | |

## L1369336-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1369336-03 07/01/21 23:37 • (MS) R3674869-3 07/02/21 00:43 • (MSD) R3674869-4 07/02/21 01:05

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPH (GC/FID) Low Fraction | 1100 | 741 | 1800 | 1720 | 96.3 | 89.0 | 200 | 10.0-151 | | | 4.55 | 28 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *111* | *114* | | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R3675373-2 07/02/21 08:40

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPH (GC/FID) Low Fraction | U | | 0.0217 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *107* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R3675373-1 07/02/21 07:57

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPH (GC/FID) Low Fraction | 5.50 | 5.17 | 94.0 | 72.0-127 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *96.4* | *77.0-120* | |

## Method Blank (MB)

(MB) R3675900-2 07/05/21 11:45

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPH (GC/FID) Low Fraction | U | | 0.0217 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.3* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R3675900-1 07/05/21 10:35

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPH (GC/FID) Low Fraction | 5.50 | 5.65 | 103 | 72.0-127 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *116* | *77.0-120* | |

## Method Blank (MB)

(MB) R3673095-2 06/25/21 21:09

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Benzene | U | | 0.000467 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *107* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *85.8* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *118* | | | *70.0-130* |

## Laboratory Control Sample (LCS)

(LCS) R3673095-1 06/25/21 20:12

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Benzene | 0.125 | 0.113 | 90.4 | 70.0-123 | |
| Ethylbenzene | 0.125 | 0.115 | 92.0 | 74.0-126 | |
| Toluene | 0.125 | 0.123 | 98.4 | 75.0-121 | |
| Xylenes, Total | 0.375 | 0.341 | 90.9 | 72.0-127 | |
| *(S) Toluene-d8* | | | *106* | *75.0-131* | |
| *(S) 4-Bromofluorobenzene* | | | *89.2* | *67.0-138* | |
| *(S) 1,2-Dichloroethane-d4* | | | *128* | *70.0-130* | |

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

## Method Blank (MB)

(MB) R3674150-3 06/25/21 20:49

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Benzene | U | | 0.000467 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *104* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *98.9* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *94.3* | | | *70.0-130* |

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

(LCS) R3674150-1 06/25/21 19:33 • (LCSD) R3674150-2 06/25/21 19:52

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.125 | 0.136 | 0.134 | 109 | 107 | 70.0-123 | | | 1.48 | 20 |
| Ethylbenzene | 0.125 | 0.138 | 0.138 | 110 | 110 | 74.0-126 | | | 0.000 | 20 |
| Toluene | 0.125 | 0.127 | 0.128 | 102 | 102 | 75.0-121 | | | 0.784 | 20 |
| Xylenes, Total | 0.375 | 0.431 | 0.428 | 115 | 114 | 72.0-127 | | | 0.698 | 20 |
| *(S) Toluene-d8* | | | | *98.3* | *100* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *105* | *105* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *98.7* | *101* | *70.0-130* | | | | |

## L1369542-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1369542-01 06/26/21 00:43 • (MS) R3674150-4 06/26/21 04:12 • (MSD) R3674150-5 06/26/21 04:31

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.128 | 0.000919 | 0.0660 | 0.132 | 51.0 | 102 | 1 | 10.0-149 | | J3 | 66.5 | 37 |
| Ethylbenzene | 0.128 | 0.0468 | 0.137 | 0.188 | 70.6 | 111 | 1 | 10.0-160 | | | 31.4 | 38 |
| Toluene | 0.128 | 0.101 | 0.228 | 0.282 | 99.6 | 142 | 1 | 10.0-156 | | | 21.2 | 38 |
| Xylenes, Total | 0.383 | 0.597 | 1.06 | 1.16 | 121 | 148 | 1 | 10.0-160 | | | 9.17 | 38 |
| *(S) Toluene-d8* | | | | | *107* | *106* | | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *98.3* | *98.0* | | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | | *96.3* | *92.3* | | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R3675518-3 06/30/21 21:18

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Benzene | U | | 0.000467 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *101* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *109* | | | *70.0-130* |

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

(LCS) R3675518-1 06/30/21 20:03 • (LCSD) R3675518-2 06/30/21 20:21

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.125 | 0.136 | 0.135 | 109 | 108 | 70.0-123 | | | 0.738 | 20 |
| Ethylbenzene | 0.125 | 0.126 | 0.126 | 101 | 101 | 74.0-126 | | | 0.000 | 20 |
| Toluene | 0.125 | 0.126 | 0.129 | 101 | 103 | 75.0-121 | | | 2.35 | 20 |
| Xylenes, Total | 0.375 | 0.378 | 0.378 | 101 | 101 | 72.0-127 | | | 0.000 | 20 |
| *(S) Toluene-d8* | | | | *101* | *102* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *102* | *98.9* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *113* | *114* | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R3674470-1 07/01/21 02:18

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C10-C28 Diesel Range | U | | 1.61 | 4.00 |
| C28-C36 Motor Oil Range | U | | 0.274 | 4.00 |
| *(S) o-Terphenyl* | *62.5* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R3674470-2 07/01/21 02:31

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C10-C28 Diesel Range | 50.0 | 31.5 | 63.0 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *71.2* | *18.0-148* | |

## L1369649-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1369649-10 07/01/21 15:31 • (MS) R3674470-3 07/01/21 08:57 • (MSD) R3674470-4 07/01/21 09:10

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C10-C28 Diesel Range | 49.0 | 2.09 | 19.4 | 14.7 | 35.3 | 25.6 | 1 | 50.0-150 | J6 | J3 J6 | 27.4 | 20 |
| *(S) o-Terphenyl* | | | | | *36.8* | *24.9* | | *18.0-148* | | | | |

## Method Blank (MB)

(MB) R3674898-1 07/01/21 14:49

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C10-C28 Diesel Range | U | | 1.61 | 4.00 |
| C28-C36 Motor Oil Range | U | | 0.274 | 4.00 |
| *(S) o-Terphenyl* | *48.3* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R3674898-2 07/01/21 15:03

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C10-C28 Diesel Range | 50.0 | 27.7 | 55.4 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *54.5* | *18.0-148* | |

## L1369970-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1369970-01 07/01/21 17:33 • (MS) R3674898-3 07/01/21 17:47 • (MSD) R3674898-4 07/01/21 18:00

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C10-C28 Diesel Range | 50.0 | 6.12 | 36.6 | 37.8 | 60.9 | 63.8 | 1 | 50.0-150 | | | 3.31 | 20 |
| *(S) o-Terphenyl* | | | | | *59.8* | *68.1* | | *18.0-148* | | | | |

## Guide to Reading and Understanding Your Laboratory Report

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

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

## Abbreviations and Definitions

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

| Qualifier | Description |
|---|---|
| E | The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL). |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| J7 | Surrogate recovery cannot be used for control limit evaluation due to dilution. |
| V | The sample concentration is too high to evaluate accurate spike recoveries. |

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LAO000356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

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

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Analysis Request of Chain of Custody Record

1232

Page : 1 of 3

# Tetra Tech, Inc.

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

176649

| | | | |
|---|---|---|---|
| **Client Name:** | Conoco Phillips | **Site Manager:** | Christian Llull |
| **Project Name:** | Leamex 009 FL Release | **Contact Info:** | Email: Christian.Llull@tetratech.com<br>Phone: (512) 565-0190 |
| **Project Location:** (county, state) | Lea County, New Mexico | **Project #:** | 212C-MD-02533 |
| **Invoice to:** | Accounts Payable<br>901 West Wall Street, Suite 100 Midland, Texas 79701 | | |
| **Receiving Laboratory:** | Pace Analytical | **Sampler Signature:** | Andrew Garcia |

**Comments:** COPTETRA Acctnum

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2021 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD NONE | | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B BTEX 8260B | TPH TX1005 (Ext to C35) | TPH 8015M ( GRO - DRO - ORO - MRO) | PAH 8270C | Total Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC/MS Vol. 8260B / 624 | GC/MS Semi. Vol. 8270C/625 | PCB's 8082 / 608 | NORM | PLM (Asbestos) | Chloride 300.0 | Chloride Sulfate TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | TPH 8015R | | HOLD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H-1 (0'-1') | 06/21/21 | 830 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | -01 |
| | H-2 (0'-1') | 06/21/21 | 845 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | -02 |
| | H-3 (0'-1') | 06/21/21 | 900 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | -03 |
| | H-4 (0'-1') | 06/21/21 | 915 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | -04 |
| | H-5 (0'-1') | 06/21/21 | 930 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | -05 |
| | H-6 (0'-1') | 06/21/21 | 945 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | -06 |
| | H-7 (0'-1') | 06/21/21 | 1000 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | -07 |
| | H-8 (0'-1') | 06/21/21 | 1015 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | -08 |
| | OS-1 (0'-1') | 06/21/21 | 1100 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | -09 |
| | OS-2 (0'-1') | 06/21/21 | 1115 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | -10 |

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: Andrew Garcia | Date: 22-Jun-21 | Time: 13:00 | Received by: | Date: 6-22-21 | Time: 8:30 |
| Relinquished by: | Date: 6-22-21 | Time: 16:30 | Received by: | Date: 6-22-21 | Time: 16:30 |
| Relinquished by: | Date: | Time: | Received by: | Date: 6/23/21 | Time: 8:00 |

ORIGINAL COPY

**LAB USE ONLY**

Sample Temperature

**REMARKS:**

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

1.4 ± 0 = 1.4 AT

Analysis Request of Chain of Custody Record

Page : 2 of 3

# Tetra Tech, Inc.

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

136949

| | | | |
|---|---|---|---|
| **Client Name:** | Conoco Phillips | **Site Manager:** | Christian Llull |
| **Project Name:** | Leamex 009 FL Release | **Contact Info:** | Email: Christian.Llull@tetratech.com<br>Phone: (512) 565-0190 |
| **Project Location:** (county, state) | Lea County, New Mexico | **Project #:** | 212C-MD-02533 |
| **Invoice to:** | Accounts Payable<br>901 West Wall Street, Suite 100 Midland, Texas 79701 | | |
| **Receiving Laboratory:** | Pace Analytical | **Sampler Signature:** | Andrew Garcia |

**Comments:** COPTETRA Acctnum

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2021 DATE | SAMPLING TIME | MATRIX: WATER | MATRIX: SOIL | MATRIX: | PRESERVATIVE METHOD: HCL | PRESERVATIVE METHOD: $HNO_3$ | PRESERVATIVE METHOD: ICE | PRESERVATIVE METHOD: NONE | PRESERVATIVE METHOD: | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B BTEX 8260B | TPH TX1005 (Ext to C35) | TPH 8015M ( GRO - DRO - ORO - MRO) | PAH 8270C | Total Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC/MS Vol. 8260B / 624 | GC/MS Semi. Vol. 8270C/625 | PCB's 8082 / 608 | NORM | PLM (Asbestos) | Chloride 300.0 | Chloride Sulfate TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | TPH 8015R | | HOLD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | OS-3 (0'-1') | 06/21/21 | 1130 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | -11 |
| | OS-4 (0'-1') | 06/21/21 | 1145 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | -12 |
| | SW-1 | 06/21/21 | 1300 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | -13 |
| | SW-2 | 06/21/21 | 1330 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | -14 |
| | SW-3 | 06/21/21 | 1400 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | -15 |
| | SW-4 | 06/21/21 | 1430 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | -16 |
| | SW-5 | 06/21/21 | 1500 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | -17 |
| | SW-6 | 06/21/21 | 1530 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | -18 |
| | SW-7 | 06/21/21 | 1600 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | -19 |
| | FS-1 (.5') | 06/21/21 | 1630 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | -20 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: | LAB USE ONLY | REMARKS: |
| Andrew Garcia | 22-Jun-21 | 13:00 | | 6-22-21 | 13:00 | Sample Temperature | X Standard |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: | | RUSH: Same Day 24 hr. 48 hr. 72 hr. |
| | 6-22-21 | 10:35 | | 6-22-21 | 16:35 | | Rush Charges Authorized |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: | | Special Report Limits or TRRP Report |
| | | | | 6/23/21 | 8:00 | | |

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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1.4+0=1.4 NTU

Analysis Request of Chain of Custody Record



# Tetra Tech, Inc.

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

1369649

| | | | |
|---|---|---|---|
| **Client Name:** | Conoco Phillips | **Site Manager:** | Christian Llull |
| **Project Name:** | Leamex 009 FL Release | **Contact Info:** | Email: Christian.Llull@tetratech.com<br>Phone: (512) 565-0190 |
| **Project Location:** (county, state) | Lea County, New Mexico | **Project #:** | 212C-MD-02533 |
| **Invoice to:** | Accounts Payable<br>901 West Wall Street, Suite 100 Midland, Texas 79701 | | |
| **Receiving Laboratory:** | Pace Analytical | **Sampler Signature:** | Andrew Garcia |

**Comments:** COPTETRA Acctnum

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING DATE | SAMPLING TIME | MATRIX: WATER | MATRIX: SOIL | MATRIX: | PRESERVATIVE METHOD: HCL | PRESERVATIVE METHOD: $HNO_3$ | PRESERVATIVE METHOD: ICE | PRESERVATIVE METHOD: NONE | PRESERVATIVE METHOD: | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B BTEX 8260B | TPH TX1005 (Ext to C35) | TPH 8015M ( GRO - DRO - ORO - MRO) | PAH 8270C | Total Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC/MS Vol. 8260B / 624 | GC/MS Semi. Vol. 8270C/625 | PCB's 8082 / 608 | NORM | PLM (Asbestos) | Chloride 300.0 | Chloride Sulfate TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | TPH 8015R | | HOLD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FS-2 (.5') | 06/21/21 | 1700 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | -21 |
| | FS-3 (1') | 06/21/21 | 1730 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | -22 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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|---|---|---|---|---|---|
| Relinquished by: Andrew Garcia | Date: 22-Jun-21 | Time: 13:00 | Received by: | Date: 6-22-21 | Time: 13:00 |
| Relinquished by: | Date: 6-22-21 | Time: 16:30 | Received by: SWA | Date: 6-22-21 | Time: 16:30 |
| Relinquished by: | Date: | Time: | Received by: | Date: 6/23/21 | Time: 8:00 |

ORIGINAL COPY

**LAB USE ONLY**

Sample Temperature

**REMARKS:**

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

1.4±0=1.4 AT BL

Pace Analytical®

# ANALYTICAL REPORT

September 07, 2021



## ConocoPhillips - Tetra Tech

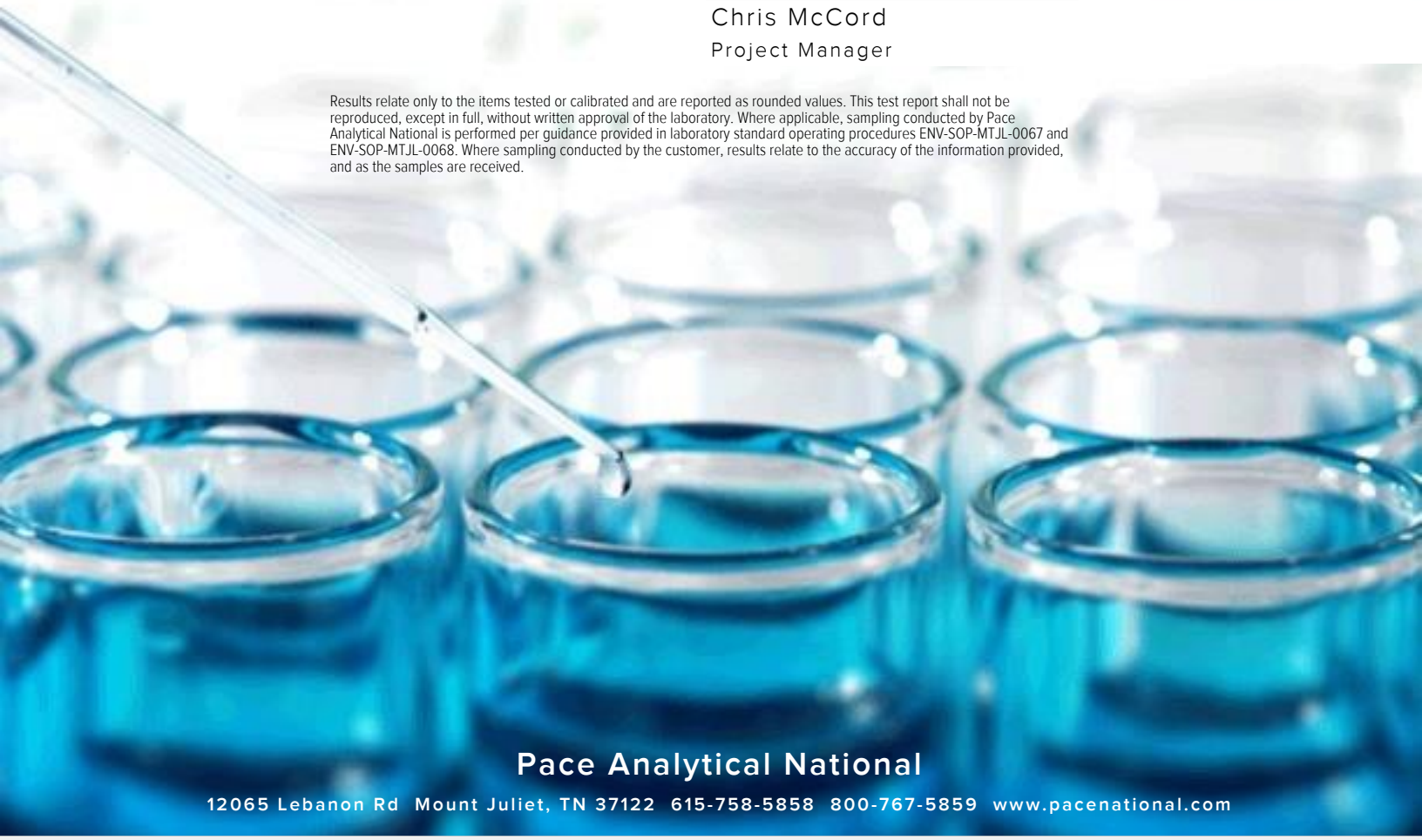
| | |
|---|---|
| Sample Delivery Group: | L1393699 |
| Samples Received: | 08/21/2021 |
| Project Number: | 212C-MD-02533 |
| Description: | Leamex 9 |

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.



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

# TABLE OF CONTENTS

## BH-1 (0'-1') L1393699-01 Solid

Collected by: Devin Dominguez | Collected date/time: 08/19/21 12:00 | Received date/time: 08/21/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1731698 | 1 | 08/31/21 07:47 | 08/31/21 07:54 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1731263 | 1 | 08/28/21 20:12 | 08/29/21 00:47 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1730040 | 1 | 08/25/21 16:20 | 08/28/21 06:43 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1729969 | 1 | 08/25/21 16:20 | 08/27/21 00:53 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1732327 | 1 | 08/31/21 12:05 | 09/01/21 23:44 | CAG | Mt. Juliet, TN |

## BH-1 (2'-3') L1393699-02 Solid

Collected by: Andrew Garcia | Collected date/time: 08/19/21 12:05 | Received date/time: 08/21/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1731698 | 1 | 08/31/21 07:47 | 08/31/21 07:54 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1731263 | 1 | 08/28/21 20:12 | 08/29/21 01:12 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1730040 | 1 | 08/25/21 16:20 | 08/28/21 07:07 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1729969 | 1 | 08/25/21 16:20 | 08/27/21 01:12 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1732327 | 1 | 08/31/21 12:05 | 08/31/21 20:50 | CAG | Mt. Juliet, TN |

## BH-1 (4'-5') L1393699-03 Solid

Collected by: Andrew Garcia | Collected date/time: 08/19/21 12:10 | Received date/time: 08/21/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1731698 | 1 | 08/31/21 07:47 | 08/31/21 07:54 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1731263 | 1 | 08/28/21 20:12 | 08/29/21 01:21 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1734137 | 1 | 08/25/21 16:20 | 09/02/21 19:38 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1729969 | 1 | 08/25/21 16:20 | 08/27/21 01:30 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1732327 | 1 | 08/31/21 12:05 | 08/31/21 21:04 | CAG | Mt. Juliet, TN |

## BH-1 (6'-7') L1393699-04 Solid

Collected by: Andrew Garcia | Collected date/time: 08/19/21 12:15 | Received date/time: 08/21/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1731698 | 1 | 08/31/21 07:47 | 08/31/21 07:54 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1731263 | 1 | 08/28/21 20:12 | 08/29/21 01:31 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1730040 | 1 | 08/25/21 16:20 | 08/28/21 07:54 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1729969 | 1 | 08/25/21 16:20 | 08/27/21 01:49 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1732327 | 1 | 08/31/21 12:05 | 08/31/21 21:18 | CAG | Mt. Juliet, TN |

## BH-1 (9'-10') L1393699-05 Solid

Collected by: Andrew Garcia | Collected date/time: 08/19/21 12:20 | Received date/time: 08/21/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1731698 | 1 | 08/31/21 07:47 | 08/31/21 07:54 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1731263 | 1 | 08/28/21 20:12 | 08/29/21 01:41 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1730040 | 1 | 08/25/21 16:20 | 08/28/21 08:18 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1729969 | 1 | 08/25/21 16:20 | 08/27/21 02:08 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1732327 | 1 | 08/31/21 12:05 | 08/31/21 21:32 | CAG | Mt. Juliet, TN |

## BH-1 (14'-15') L1393699-06 Solid

Collected by: Andrew Garcia | Collected date/time: 08/19/21 12:25 | Received date/time: 08/21/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1731699 | 1 | 08/31/21 07:36 | 08/31/21 07:44 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1731263 | 1 | 08/28/21 20:12 | 08/29/21 01:50 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1735363 | 1 | 08/19/21 12:25 | 09/05/21 15:46 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1729969 | 1 | 08/25/21 16:20 | 08/27/21 02:27 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1732327 | 1 | 08/31/21 12:05 | 08/31/21 21:46 | CAG | Mt. Juliet, TN |

## BH-2 (0'-1') L1393699-07 Solid

Collected by: Andrew Garcia | Collected date/time: 08/19/21 12:30 | Received date/time: 08/21/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1731699 | 1 | 08/31/21 07:36 | 08/31/21 07:44 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1731263 | 1 | 08/28/21 20:12 | 08/29/21 02:47 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1730040 | 1 | 08/25/21 16:20 | 08/28/21 09:05 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1729969 | 1 | 08/25/21 16:20 | 08/27/21 02:46 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1732327 | 5 | 08/31/21 12:05 | 08/31/21 22:42 | CAG | Mt. Juliet, TN |

## BH-2 (2'-3') L1393699-08 Solid

Collected by: Andrew Garcia | Collected date/time: 08/19/21 12:35 | Received date/time: 08/21/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1731699 | 1 | 08/31/21 07:36 | 08/31/21 07:44 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1731263 | 1 | 08/28/21 20:12 | 08/29/21 02:57 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1730040 | 1 | 08/25/21 16:20 | 08/28/21 09:29 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1729969 | 1 | 08/25/21 16:20 | 08/27/21 03:05 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1732327 | 1 | 08/31/21 12:05 | 08/31/21 22:00 | CAG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1732327 | 2 | 08/31/21 12:05 | 09/01/21 23:57 | CAG | Mt. Juliet, TN |

## BH-2 (4'-5') L1393699-09 Solid

Collected by: Andrew Garcia | Collected date/time: 08/19/21 12:40 | Received date/time: 08/21/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1731699 | 1 | 08/31/21 07:36 | 08/31/21 07:44 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1731263 | 5 | 08/28/21 20:12 | 08/29/21 03:06 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1730040 | 1 | 08/25/21 16:20 | 08/28/21 09:53 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1729969 | 1 | 08/25/21 16:20 | 08/27/21 03:24 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1732517 | 1 | 09/01/21 09:15 | 09/01/21 22:22 | CAG | Mt. Juliet, TN |

## BH-2 (6'-7') L1393699-10 Solid

Collected by: Andrew Garcia | Collected date/time: 08/19/21 12:45 | Received date/time: 08/21/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1731699 | 1 | 08/31/21 07:36 | 08/31/21 07:44 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1731263 | 1 | 08/28/21 20:12 | 08/29/21 03:16 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1730040 | 1 | 08/25/21 16:20 | 08/28/21 10:17 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1729969 | 1 | 08/25/21 16:20 | 08/27/21 03:43 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1732517 | 1 | 09/01/21 09:15 | 09/01/21 20:43 | CAG | Mt. Juliet, TN |

## BH-2 (9'-10') L1393699-11 Solid

Collected by: Andrew Garcia | Collected date/time: 08/19/21 12:50 | Received date/time: 08/21/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1731699 | 1 | 08/31/21 07:36 | 08/31/21 07:44 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1731263 | 1 | 08/28/21 20:12 | 08/29/21 03:25 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1730040 | 1 | 08/25/21 16:20 | 08/28/21 10:40 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1729969 | 1 | 08/25/21 16:20 | 08/27/21 04:02 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1732517 | 1 | 09/01/21 09:15 | 09/01/21 19:47 | CAG | Mt. Juliet, TN |

## BH-2 (14'-15') L1393699-12 Solid

Collected by: Andrew Garcia | Collected date/time: 08/19/21 12:55 | Received date/time: 08/21/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1731699 | 1 | 08/31/21 07:36 | 08/31/21 07:44 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1731263 | 1 | 08/28/21 20:12 | 08/29/21 03:35 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1735363 | 1 | 08/19/21 12:55 | 09/05/21 16:09 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1729969 | 1 | 08/25/21 16:20 | 08/27/21 04:21 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1732517 | 1 | 09/01/21 09:15 | 09/01/21 19:32 | CAG | Mt. Juliet, TN |

## H-9 (0'-1') L1393699-13 Solid

Collected by: Andrew Garcia | Collected date/time: 08/19/21 13:00 | Received date/time: 08/21/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1731699 | 1 | 08/31/21 07:36 | 08/31/21 07:44 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1731263 | 1 | 08/28/21 20:12 | 08/29/21 03:44 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1730040 | 1 | 08/25/21 16:20 | 08/28/21 11:28 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1729969 | 1 | 08/25/21 16:20 | 08/27/21 04:39 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1732517 | 2 | 09/01/21 09:15 | 09/02/21 20:48 | TJD | Mt. Juliet, TN |

## H-9 (1'-2') L1393699-14 Solid

Collected by: Andrew Garcia | Collected date/time: 08/19/21 13:05 | Received date/time: 08/21/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1731699 | 1 | 08/31/21 07:36 | 08/31/21 07:44 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1731263 | 1 | 08/28/21 20:12 | 08/29/21 03:54 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1730040 | 1 | 08/25/21 16:20 | 08/28/21 11:51 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1730194 | 1 | 08/25/21 16:20 | 08/27/21 01:04 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1732517 | 1 | 09/01/21 09:15 | 09/02/21 20:35 | TJD | Mt. Juliet, TN |

## H-9 (2'-3') L1393699-15 Solid

Collected by: Andrew Garcia | Collected date/time: 08/19/21 13:10 | Received date/time: 08/21/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1731699 | 1 | 08/31/21 07:36 | 08/31/21 07:44 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1731263 | 1 | 08/28/21 20:12 | 08/29/21 04:22 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1730040 | 1 | 08/25/21 16:20 | 08/28/21 12:15 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1730194 | 1 | 08/25/21 16:20 | 08/27/21 01:23 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1732517 | 1 | 09/01/21 09:15 | 09/02/21 00:05 | CAG | Mt. Juliet, TN |

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

## H-9 (3'-4') L1393699-16 Solid

Collected by: Andrew Garcia | Collected date/time: 08/19/21 13:15 | Received date/time: 08/21/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1731702 | 1 | 08/31/21 07:24 | 08/31/21 07:31 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1731263 | 1 | 08/28/21 20:12 | 08/29/21 04:32 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1730040 | 1 | 08/25/21 16:20 | 08/28/21 12:38 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1730194 | 1 | 08/25/21 16:20 | 08/27/21 01:41 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1732517 | 1 | 09/01/21 09:15 | 09/01/21 23:52 | CAG | Mt. Juliet, TN |

## H-10 (0'-1') L1393699-17 Solid

Collected by: Andrew Garcia | Collected date/time: 08/19/21 13:20 | Received date/time: 08/21/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1731702 | 1 | 08/31/21 07:24 | 08/31/21 07:31 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1731263 | 1 | 08/28/21 20:12 | 08/29/21 04:41 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1730040 | 1 | 08/25/21 16:20 | 08/28/21 13:02 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1730194 | 1 | 08/25/21 16:20 | 08/27/21 02:00 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1732517 | 2 | 09/01/21 09:15 | 09/02/21 01:01 | CAG | Mt. Juliet, TN |

## H-10 (1'-2') L1393699-18 Solid

Collected by: Andrew Garcia | Collected date/time: 08/19/21 13:25 | Received date/time: 08/21/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1731702 | 1 | 08/31/21 07:24 | 08/31/21 07:31 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1731263 | 1 | 08/28/21 20:12 | 08/29/21 04:51 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1730040 | 1.01 | 08/25/21 16:20 | 08/28/21 13:26 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1730194 | 1 | 08/25/21 16:20 | 08/27/21 02:19 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1732517 | 2 | 09/01/21 09:15 | 09/02/21 00:33 | CAG | Mt. Juliet, TN |

## H-10 (2'-3') L1393699-19 Solid

Collected by: Andrew Garcia | Collected date/time: 08/19/21 13:30 | Received date/time: 08/21/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1731702 | 1 | 08/31/21 07:24 | 08/31/21 07:31 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1731263 | 1 | 08/28/21 20:12 | 08/29/21 05:00 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1730040 | 1 | 08/25/21 16:20 | 08/28/21 13:50 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1730194 | 1 | 08/25/21 16:20 | 08/27/21 02:38 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1732517 | 1 | 09/01/21 09:15 | 09/02/21 20:22 | TJD | Mt. Juliet, TN |

## H-10 (3'-4') L1393699-20 Solid

Collected by: Andrew Garcia | Collected date/time: 08/19/21 13:35 | Received date/time: 08/21/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1731702 | 1 | 08/31/21 07:24 | 08/31/21 07:31 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1731263 | 1 | 08/28/21 20:12 | 08/29/21 05:10 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1735363 | 1 | 08/19/21 13:35 | 09/05/21 16:33 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1730194 | 1 | 08/25/21 16:20 | 08/27/21 02:57 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1732517 | 1 | 09/01/21 09:15 | 09/01/21 20:01 | CAG | Mt. Juliet, TN |

## H-11 (0-1') L1393699-21 Solid

Collected by: Andrew Garcia | Collected date/time: 08/19/21 13:40 | Received date/time: 08/21/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1731702 | 1 | 08/31/21 07:24 | 08/31/21 07:31 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1731267 | 1 | 08/28/21 20:25 | 08/29/21 03:34 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1731182 | 1 | 08/25/21 16:20 | 08/28/21 21:05 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1730194 | 1 | 08/25/21 16:20 | 08/27/21 03:16 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1732517 | 1 | 09/01/21 09:15 | 09/01/21 22:08 | CAG | Mt. Juliet, TN |

## H-11 (1'-2') L1393699-22 Solid

Collected by: Andrew Garcia | Collected date/time: 08/19/21 13:45 | Received date/time: 08/21/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1731702 | 1 | 08/31/21 07:24 | 08/31/21 07:31 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1731267 | 1 | 08/28/21 20:25 | 08/29/21 03:48 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1731182 | 1 | 08/25/21 16:20 | 08/28/21 21:26 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1730194 | 1 | 08/25/21 16:20 | 08/27/21 03:35 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1732517 | 1 | 09/01/21 09:15 | 09/01/21 20:29 | CAG | Mt. Juliet, TN |

## H-11 (2'-3') L1393699-23 Solid

Collected by: Andrew Garcia | Collected date/time: 08/19/21 13:50 | Received date/time: 08/21/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1731702 | 1 | 08/31/21 07:24 | 08/31/21 07:31 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1731267 | 1 | 08/28/21 20:25 | 08/29/21 04:03 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1731182 | 1 | 08/25/21 16:20 | 08/28/21 21:48 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1730194 | 1 | 08/25/21 16:20 | 08/27/21 03:54 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1732517 | 1 | 09/01/21 09:15 | 09/01/21 21:54 | CAG | Mt. Juliet, TN |

## H-11 (3'-4') L1393699-24 Solid

Collected by: Andrew Garcia | Collected date/time: 08/19/21 13:55 | Received date/time: 08/21/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1731702 | 1 | 08/31/21 07:24 | 08/31/21 07:31 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1731267 | 1 | 08/28/21 20:25 | 08/29/21 04:17 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1731182 | 1.01 | 08/25/21 16:20 | 08/28/21 22:10 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1730194 | 1 | 08/25/21 16:20 | 08/27/21 04:13 | ADM | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1732517 | 1 | 09/01/21 09:15 | 09/01/21 20:15 | CAG | Mt. Juliet, TN |

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

Chris McCord
Project Manager

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 75.4 | | 1 | 08/31/2021 07:54 | WG1731698 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 606 | | 12.2 | 26.5 | 1 | 08/29/2021 00:47 | WG1731263 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0480 | B J | 0.0288 | 0.133 | 1 | 08/28/2021 06:43 | WG1730040 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.4* | | | *77.0-120* | | *08/28/2021 06:43* | WG1730040 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000770 | 0.00165 | 1 | 08/27/2021 00:53 | WG1729969 |
| Toluene | U | | 0.00214 | 0.00825 | 1 | 08/27/2021 00:53 | WG1729969 |
| Ethylbenzene | U | | 0.00122 | 0.00412 | 1 | 08/27/2021 00:53 | WG1729969 |
| Total Xylenes | U | | 0.00145 | 0.0107 | 1 | 08/27/2021 00:53 | WG1729969 |
| *(S) Toluene-d8* | *120* | | | *75.0-131* | | *08/27/2021 00:53* | WG1729969 |
| *(S) 4-Bromofluorobenzene* | *84.7* | | | *67.0-138* | | *08/27/2021 00:53* | WG1729969 |
| *(S) 1,2-Dichloroethane-d4* | *97.1* | | | *70.0-130* | | *08/27/2021 00:53* | WG1729969 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 2.13 | 5.30 | 1 | 09/01/2021 23:44 | WG1732327 |
| C28-C36 Motor Oil Range | 0.363 | J | 0.363 | 5.30 | 1 | 09/01/2021 23:44 | WG1732327 |
| *(S) o-Terphenyl* | *48.9* | | | *18.0-148* | | *09/01/2021 23:44* | WG1732327 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 79.8 | | 1 | 08/31/2021 07:54 | WG1731698 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 296 | | 11.5 | 25.1 | 1 | 08/29/2021 01:12 | WG1731263 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0590 | B J | 0.0272 | 0.125 | 1 | 08/28/2021 07:07 | WG1730040 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.4* | | | *77.0-120* | | *08/28/2021 07:07* | WG1730040 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000703 | 0.00151 | 1 | 08/27/2021 01:12 | WG1729969 |
| Toluene | U | | 0.00196 | 0.00753 | 1 | 08/27/2021 01:12 | WG1729969 |
| Ethylbenzene | U | | 0.00111 | 0.00377 | 1 | 08/27/2021 01:12 | WG1729969 |
| Total Xylenes | U | | 0.00133 | 0.00979 | 1 | 08/27/2021 01:12 | WG1729969 |
| *(S) Toluene-d8* | *120* | | | *75.0-131* | | *08/27/2021 01:12* | WG1729969 |
| *(S) 4-Bromofluorobenzene* | *86.1* | | | *67.0-138* | | *08/27/2021 01:12* | WG1729969 |
| *(S) 1,2-Dichloroethane-d4* | *96.9* | | | *70.0-130* | | *08/27/2021 01:12* | WG1729969 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 2.02 | 5.01 | 1 | 08/31/2021 20:50 | WG1732327 |
| C28-C36 Motor Oil Range | 3.38 | J | 0.343 | 5.01 | 1 | 08/31/2021 20:50 | WG1732327 |
| *(S) o-Terphenyl* | *50.9* | | | *18.0-148* | | *08/31/2021 20:50* | WG1732327 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 81.2 | | 1 | 08/31/2021 07:54 | WG1731698 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 486 | | 11.3 | 24.6 | 1 | 08/29/2021 01:21 | WG1731263 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.0267 | 0.123 | 1 | 09/02/2021 19:38 | WG1734137 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *110* | | | *77.0-120* | | *09/02/2021 19:38* | WG1734137 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000683 | 0.00146 | 1 | 08/27/2021 01:30 | WG1729969 |
| Toluene | U | | 0.00190 | 0.00732 | 1 | 08/27/2021 01:30 | WG1729969 |
| Ethylbenzene | U | | 0.00108 | 0.00366 | 1 | 08/27/2021 01:30 | WG1729969 |
| Total Xylenes | U | | 0.00129 | 0.00951 | 1 | 08/27/2021 01:30 | WG1729969 |
| *(S) Toluene-d8* | *110* | | | *75.0-131* | | *08/27/2021 01:30* | WG1729969 |
| *(S) 4-Bromofluorobenzene* | *82.3* | | | *67.0-138* | | *08/27/2021 01:30* | WG1729969 |
| *(S) 1,2-Dichloroethane-d4* | *98.1* | | | *70.0-130* | | *08/27/2021 01:30* | WG1729969 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.98 | 4.92 | 1 | 08/31/2021 21:04 | WG1732327 |
| C28-C36 Motor Oil Range | 0.465 | J | 0.337 | 4.92 | 1 | 08/31/2021 21:04 | WG1732327 |
| *(S) o-Terphenyl* | *64.1* | | | *18.0-148* | | *08/31/2021 21:04* | WG1732327 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.1 | | 1 | 08/31/2021 07:54 | WG1731698 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 470 | | 11.2 | 24.4 | 1 | 08/29/2021 01:31 | WG1731263 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0674 | B J | 0.0264 | 0.122 | 1 | 08/28/2021 07:54 | WG1730040 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.8* | | | *77.0-120* | | *08/28/2021 07:54* | WG1730040 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000671 | 0.00144 | 1 | 08/27/2021 01:49 | WG1729969 |
| Toluene | U | | 0.00187 | 0.00719 | 1 | 08/27/2021 01:49 | WG1729969 |
| Ethylbenzene | U | | 0.00106 | 0.00359 | 1 | 08/27/2021 01:49 | WG1729969 |
| Total Xylenes | U | | 0.00126 | 0.00934 | 1 | 08/27/2021 01:49 | WG1729969 |
| *(S) Toluene-d8* | *117* | | | *75.0-131* | | *08/27/2021 01:49* | WG1729969 |
| *(S) 4-Bromofluorobenzene* | *85.4* | | | *67.0-138* | | *08/27/2021 01:49* | WG1729969 |
| *(S) 1,2-Dichloroethane-d4* | *94.2* | | | *70.0-130* | | *08/27/2021 01:49* | WG1729969 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.96 | 4.87 | 1 | 08/31/2021 21:18 | WG1732327 |
| C28-C36 Motor Oil Range | 0.581 | J | 0.334 | 4.87 | 1 | 08/31/2021 21:18 | WG1732327 |
| *(S) o-Terphenyl* | *67.5* | | | *18.0-148* | | *08/31/2021 21:18* | WG1732327 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 83.4 | | 1 | 08/31/2021 07:54 | WG1731698 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 237 | | 11.0 | 24.0 | 1 | 08/29/2021 01:41 | WG1731263 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0459 | B J | 0.0260 | 0.120 | 1 | 08/28/2021 08:18 | WG1730040 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.8* | | | *77.0-120* | | *08/28/2021 08:18* | WG1730040 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000653 | 0.00140 | 1 | 08/27/2021 02:08 | WG1729969 |
| Toluene | U | | 0.00182 | 0.00699 | 1 | 08/27/2021 02:08 | WG1729969 |
| Ethylbenzene | U | | 0.00103 | 0.00349 | 1 | 08/27/2021 02:08 | WG1729969 |
| Total Xylenes | U | | 0.00123 | 0.00908 | 1 | 08/27/2021 02:08 | WG1729969 |
| *(S) Toluene-d8* | *118* | | | *75.0-131* | | *08/27/2021 02:08* | WG1729969 |
| *(S) 4-Bromofluorobenzene* | *85.7* | | | *67.0-138* | | *08/27/2021 02:08* | WG1729969 |
| *(S) 1,2-Dichloroethane-d4* | *90.1* | | | *70.0-130* | | *08/27/2021 02:08* | WG1729969 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.93 | 4.80 | 1 | 08/31/2021 21:32 | WG1732327 |
| C28-C36 Motor Oil Range | U | | 0.329 | 4.80 | 1 | 08/31/2021 21:32 | WG1732327 |
| *(S) o-Terphenyl* | *70.7* | | | *18.0-148* | | *08/31/2021 21:32* | WG1732327 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.4 | | 1 | 08/31/2021 07:44 | WG1731699 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 182 | | 10.6 | 23.1 | 1 | 08/29/2021 01:50 | WG1731263 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0464 | B J Q | 0.0251 | 0.116 | 1 | 09/05/2021 15:46 | WG1735363 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-120* | | *09/05/2021 15:46* | WG1735363 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000614 | 0.00131 | 1 | 08/27/2021 02:27 | WG1729969 |
| Toluene | U | | 0.00171 | 0.00657 | 1 | 08/27/2021 02:27 | WG1729969 |
| Ethylbenzene | U | | 0.000969 | 0.00329 | 1 | 08/27/2021 02:27 | WG1729969 |
| Total Xylenes | U | | 0.00116 | 0.00854 | 1 | 08/27/2021 02:27 | WG1729969 |
| *(S) Toluene-d8* | *121* | | | *75.0-131* | | *08/27/2021 02:27* | WG1729969 |
| *(S) 4-Bromofluorobenzene* | *87.7* | | | *67.0-138* | | *08/27/2021 02:27* | WG1729969 |
| *(S) 1,2-Dichloroethane-d4* | *94.9* | | | *70.0-130* | | *08/27/2021 02:27* | WG1729969 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.86 | 4.63 | 1 | 08/31/2021 21:46 | WG1732327 |
| C28-C36 Motor Oil Range | 0.611 | J | 0.317 | 4.63 | 1 | 08/31/2021 21:46 | WG1732327 |
| *(S) o-Terphenyl* | *64.7* | | | *18.0-148* | | *08/31/2021 21:46* | WG1732327 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.5 | | 1 | 08/31/2021 07:44 | WG1731699 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 854 | | 10.8 | 23.4 | 1 | 08/29/2021 02:47 | WG1731263 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 1.98 | | 0.0254 | 0.117 | 1 | 08/28/2021 09:05 | WG1730040 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.9* | | | *77.0-120* | | *08/28/2021 09:05* | WG1730040 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000625 | 0.00134 | 1 | 08/27/2021 02:46 | WG1729969 |
| Toluene | U | | 0.00174 | 0.00669 | 1 | 08/27/2021 02:46 | WG1729969 |
| Ethylbenzene | U | | 0.000987 | 0.00335 | 1 | 08/27/2021 02:46 | WG1729969 |
| Total Xylenes | 0.0320 | | 0.00118 | 0.00870 | 1 | 08/27/2021 02:46 | WG1729969 |
| *(S) Toluene-d8* | *111* | | | *75.0-131* | | *08/27/2021 02:46* | WG1729969 |
| *(S) 4-Bromofluorobenzene* | *96.6* | | | *67.0-138* | | *08/27/2021 02:46* | WG1729969 |
| *(S) 1,2-Dichloroethane-d4* | *102* | | | *70.0-130* | | *08/27/2021 02:46* | WG1729969 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 1030 | | 9.42 | 23.4 | 5 | 08/31/2021 22:42 | WG1732327 |
| C28-C36 Motor Oil Range | 704 | | 1.60 | 23.4 | 5 | 08/31/2021 22:42 | WG1732327 |
| *(S) o-Terphenyl* | *72.6* | | | *18.0-148* | | *08/31/2021 22:42* | WG1732327 |

**Sample Narrative:**

L1393699-07 WG1732327: Dilution due to matrix.

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.3 | | 1 | 08/31/2021 07:44 | WG1731699 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 733 | | 10.8 | 23.5 | 1 | 08/29/2021 02:57 | WG1731263 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 1.85 | | 0.0255 | 0.117 | 1 | 08/28/2021 09:29 | WG1730040 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *93.0* | | | *77.0-120* | | *08/28/2021 09:29* | WG1730040 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000629 | 0.00135 | 1 | 08/27/2021 03:05 | WG1729969 |
| Toluene | U | | 0.00175 | 0.00673 | 1 | 08/27/2021 03:05 | WG1729969 |
| Ethylbenzene | U | | 0.000992 | 0.00337 | 1 | 08/27/2021 03:05 | WG1729969 |
| Total Xylenes | 0.178 | | 0.00118 | 0.00875 | 1 | 08/27/2021 03:05 | WG1729969 |
| *(S) Toluene-d8* | *116* | | | *75.0-131* | | *08/27/2021 03:05* | WG1729969 |
| *(S) 4-Bromofluorobenzene* | *92.6* | | | *67.0-138* | | *08/27/2021 03:05* | WG1729969 |
| *(S) 1,2-Dichloroethane-d4* | *99.2* | | | *70.0-130* | | *08/27/2021 03:05* | WG1729969 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 291 | | 1.89 | 4.69 | 1 | 08/31/2021 22:00 | WG1732327 |
| C28-C36 Motor Oil Range | 203 | | 0.643 | 9.38 | 2 | 09/01/2021 23:57 | WG1732327 |
| *(S) o-Terphenyl* | *39.1* | | | *18.0-148* | | *08/31/2021 22:00* | WG1732327 |
| *(S) o-Terphenyl* | *35.6* | | | *18.0-148* | | *09/01/2021 23:57* | WG1732327 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 85.7 | | 1 | 08/31/2021 07:44 | WG1731699 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 2170 | | 53.7 | 117 | 5 | 08/29/2021 03:06 | WG1731263 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0952 | B J | 0.0253 | 0.117 | 1 | 08/28/2021 09:53 | WG1730040 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* | | *08/28/2021 09:53* | WG1730040 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000623 | 0.00133 | 1 | 08/27/2021 03:24 | WG1729969 |
| Toluene | U | | 0.00173 | 0.00667 | 1 | 08/27/2021 03:24 | WG1729969 |
| Ethylbenzene | U | | 0.000983 | 0.00333 | 1 | 08/27/2021 03:24 | WG1729969 |
| Total Xylenes | U | | 0.00117 | 0.00867 | 1 | 08/27/2021 03:24 | WG1729969 |
| *(S) Toluene-d8* | *118* | | | *75.0-131* | | *08/27/2021 03:24* | WG1729969 |
| *(S) 4-Bromofluorobenzene* | *89.0* | | | *67.0-138* | | *08/27/2021 03:24* | WG1729969 |
| *(S) 1,2-Dichloroethane-d4* | *90.1* | | | *70.0-130* | | *08/27/2021 03:24* | WG1729969 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 67.8 | | 1.88 | 4.67 | 1 | 09/01/2021 22:22 | WG1732517 |
| C28-C36 Motor Oil Range | 46.2 | | 0.320 | 4.67 | 1 | 09/01/2021 22:22 | WG1732517 |
| *(S) o-Terphenyl* | *42.4* | | | *18.0-148* | | *09/01/2021 22:22* | WG1732517 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 96.8 | | 1 | 08/31/2021 07:44 | WG1731699 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 37.5 | | 9.51 | 20.7 | 1 | 08/29/2021 03:16 | WG1731263 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0435 | B J | 0.0224 | 0.103 | 1 | 08/28/2021 10:17 | WG1730040 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *100* | | | *77.0-120* | | *08/28/2021 10:17* | WG1730040 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000498 | 0.00107 | 1 | 08/27/2021 03:43 | WG1729969 |
| Toluene | U | | 0.00139 | 0.00533 | 1 | 08/27/2021 03:43 | WG1729969 |
| Ethylbenzene | U | | 0.000786 | 0.00267 | 1 | 08/27/2021 03:43 | WG1729969 |
| Total Xylenes | U | | 0.000938 | 0.00693 | 1 | 08/27/2021 03:43 | WG1729969 |
| *(S) Toluene-d8* | *118* | | | *75.0-131* | | *08/27/2021 03:43* | WG1729969 |
| *(S) 4-Bromofluorobenzene* | *88.3* | | | *67.0-138* | | *08/27/2021 03:43* | WG1729969 |
| *(S) 1,2-Dichloroethane-d4* | *91.3* | | | *70.0-130* | | *08/27/2021 03:43* | WG1729969 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 6.67 | | 1.66 | 4.13 | 1 | 09/01/2021 20:43 | WG1732517 |
| C28-C36 Motor Oil Range | 3.65 | J | 0.283 | 4.13 | 1 | 09/01/2021 20:43 | WG1732517 |
| *(S) o-Terphenyl* | *62.8* | | | *18.0-148* | | *09/01/2021 20:43* | WG1732517 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 95.6 | | 1 | 08/31/2021 07:44 | WG1731699 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 49.8 | | 9.62 | 20.9 | 1 | 08/29/2021 03:25 | WG1731263 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0444 | B J | 0.0227 | 0.105 | 1 | 08/28/2021 10:40 | WG1730040 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.9* | | | *77.0-120* | | *08/28/2021 10:40* | WG1730040 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000510 | 0.00109 | 1 | 08/27/2021 04:02 | WG1729969 |
| Toluene | U | | 0.00142 | 0.00546 | 1 | 08/27/2021 04:02 | WG1729969 |
| Ethylbenzene | U | | 0.000805 | 0.00273 | 1 | 08/27/2021 04:02 | WG1729969 |
| Total Xylenes | U | | 0.000961 | 0.00710 | 1 | 08/27/2021 04:02 | WG1729969 |
| *(S) Toluene-d8* | *117* | | | *75.0-131* | | *08/27/2021 04:02* | WG1729969 |
| *(S) 4-Bromofluorobenzene* | *92.3* | | | *67.0-138* | | *08/27/2021 04:02* | WG1729969 |
| *(S) 1,2-Dichloroethane-d4* | *97.1* | | | *70.0-130* | | *08/27/2021 04:02* | WG1729969 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 2.13 | J | 1.68 | 4.18 | 1 | 09/01/2021 19:47 | WG1732517 |
| C28-C36 Motor Oil Range | 1.08 | J | 0.287 | 4.18 | 1 | 09/01/2021 19:47 | WG1732517 |
| *(S) o-Terphenyl* | *60.2* | | | *18.0-148* | | *09/01/2021 19:47* | WG1732517 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 75.6 | | 1 | 08/31/2021 07:44 | WG1731699 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 452 | | 12.2 | 26.5 | 1 | 08/29/2021 03:35 | WG1731263 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0361 | B J Q | 0.0287 | 0.132 | 1 | 09/05/2021 16:09 | WG1735363 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-120* | | *09/05/2021 16:09* | WG1735363 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000770 | 0.00165 | 1 | 08/27/2021 04:21 | WG1729969 |
| Toluene | U | | 0.00214 | 0.00824 | 1 | 08/27/2021 04:21 | WG1729969 |
| Ethylbenzene | U | | 0.00121 | 0.00412 | 1 | 08/27/2021 04:21 | WG1729969 |
| Total Xylenes | U | | 0.00145 | 0.0107 | 1 | 08/27/2021 04:21 | WG1729969 |
| *(S) Toluene-d8* | *119* | | | *75.0-131* | | *08/27/2021 04:21* | WG1729969 |
| *(S) 4-Bromofluorobenzene* | *87.2* | | | *67.0-138* | | *08/27/2021 04:21* | WG1729969 |
| *(S) 1,2-Dichloroethane-d4* | *90.4* | | | *70.0-130* | | *08/27/2021 04:21* | WG1729969 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 2.13 | 5.29 | 1 | 09/01/2021 19:32 | WG1732517 |
| C28-C36 Motor Oil Range | U | | 0.363 | 5.29 | 1 | 09/01/2021 19:32 | WG1732517 |
| *(S) o-Terphenyl* | *59.7* | | | *18.0-148* | | *09/01/2021 19:32* | WG1732517 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 80.2 | | 1 | 08/31/2021 07:44 | WG1731699 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 139 | | 11.5 | 24.9 | 1 | 08/29/2021 03:44 | WG1731263 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0405 | B J | 0.0271 | 0.125 | 1 | 08/28/2021 11:28 | WG1730040 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *97.6* | | | *77.0-120* | | *08/28/2021 11:28* | WG1730040 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000698 | 0.00150 | 1 | 08/27/2021 04:39 | WG1729969 |
| Toluene | U | | 0.00194 | 0.00748 | 1 | 08/27/2021 04:39 | WG1729969 |
| Ethylbenzene | U | | 0.00110 | 0.00374 | 1 | 08/27/2021 04:39 | WG1729969 |
| Total Xylenes | 0.00202 | J | 0.00132 | 0.00972 | 1 | 08/27/2021 04:39 | WG1729969 |
| *(S) Toluene-d8* | *118* | | | *75.0-131* | | *08/27/2021 04:39* | WG1729969 |
| *(S) 4-Bromofluorobenzene* | *84.7* | | | *67.0-138* | | *08/27/2021 04:39* | WG1729969 |
| *(S) 1,2-Dichloroethane-d4* | *93.9* | | | *70.0-130* | | *08/27/2021 04:39* | WG1729969 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 51.6 | | 4.02 | 9.98 | 2 | 09/02/2021 20:48 | WG1732517 |
| C28-C36 Motor Oil Range | 155 | | 0.684 | 9.98 | 2 | 09/02/2021 20:48 | WG1732517 |
| *(S) o-Terphenyl* | *62.0* | | | *18.0-148* | | *09/02/2021 20:48* | WG1732517 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 82.5 | | 1 | 08/31/2021 07:44 | WG1731699 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 224 | | 11.2 | 24.3 | 1 | 08/29/2021 03:54 | WG1731263 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0432 | B J | 0.0263 | 0.121 | 1 | 08/28/2021 11:51 | WG1730040 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.3* | | | *77.0-120* | | *08/28/2021 11:51* | WG1730040 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000666 | 0.00143 | 1 | 08/27/2021 01:04 | WG1730194 |
| Toluene | U | | 0.00185 | 0.00713 | 1 | 08/27/2021 01:04 | WG1730194 |
| Ethylbenzene | U | | 0.00105 | 0.00356 | 1 | 08/27/2021 01:04 | WG1730194 |
| Total Xylenes | U | | 0.00125 | 0.00927 | 1 | 08/27/2021 01:04 | WG1730194 |
| *(S) Toluene-d8* | *108* | | | *75.0-131* | | *08/27/2021 01:04* | WG1730194 |
| *(S) 4-Bromofluorobenzene* | *104* | | | *67.0-138* | | *08/27/2021 01:04* | WG1730194 |
| *(S) 1,2-Dichloroethane-d4* | *94.7* | | | *70.0-130* | | *08/27/2021 01:04* | WG1730194 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 14.4 | | 1.95 | 4.85 | 1 | 09/02/2021 20:35 | WG1732517 |
| C28-C36 Motor Oil Range | 46.6 | | 0.332 | 4.85 | 1 | 09/02/2021 20:35 | WG1732517 |
| *(S) o-Terphenyl* | *39.1* | | | *18.0-148* | | *09/02/2021 20:35* | WG1732517 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 91.1 | | 1 | 08/31/2021 07:44 | WG1731699 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 19.0 | J | 10.1 | 22.0 | 1 | 08/29/2021 04:22 | WG1731263 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0328 | B J | 0.0238 | 0.110 | 1 | 08/28/2021 12:15 | WG1730040 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.0* | | | *77.0-120* | | *08/28/2021 12:15* | WG1730040 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000558 | 0.00120 | 1 | 08/27/2021 01:23 | WG1730194 |
| Toluene | U | | 0.00155 | 0.00598 | 1 | 08/27/2021 01:23 | WG1730194 |
| Ethylbenzene | U | | 0.000881 | 0.00299 | 1 | 08/27/2021 01:23 | WG1730194 |
| Total Xylenes | U | | 0.00105 | 0.00777 | 1 | 08/27/2021 01:23 | WG1730194 |
| *(S) Toluene-d8* | *109* | | | *75.0-131* | | *08/27/2021 01:23* | WG1730194 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *67.0-138* | | *08/27/2021 01:23* | WG1730194 |
| *(S) 1,2-Dichloroethane-d4* | *91.4* | | | *70.0-130* | | *08/27/2021 01:23* | WG1730194 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 16.5 | | 1.77 | 4.39 | 1 | 09/02/2021 00:05 | WG1732517 |
| C28-C36 Motor Oil Range | 54.6 | | 0.301 | 4.39 | 1 | 09/02/2021 00:05 | WG1732517 |
| *(S) o-Terphenyl* | *60.1* | | | *18.0-148* | | *09/02/2021 00:05* | WG1732517 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 92.7 | | 1 | 08/31/2021 07:31 | WG1731702 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 16.5 | J | 9.93 | 21.6 | 1 | 08/29/2021 04:32 | WG1731263 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0410 | B J | 0.0234 | 0.108 | 1 | 08/28/2021 12:38 | WG1730040 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.9* | | | *77.0-120* | | *08/28/2021 12:38* | WG1730040 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | J3 | 0.000541 | 0.00116 | 1 | 08/27/2021 01:41 | WG1730194 |
| Toluene | U | J3 | 0.00151 | 0.00579 | 1 | 08/27/2021 01:41 | WG1730194 |
| Ethylbenzene | U | J3 | 0.000854 | 0.00290 | 1 | 08/27/2021 01:41 | WG1730194 |
| Total Xylenes | U | J3 | 0.00102 | 0.00753 | 1 | 08/27/2021 01:41 | WG1730194 |
| *(S) Toluene-d8* | *107* | | | *75.0-131* | | *08/27/2021 01:41* | WG1730194 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *08/27/2021 01:41* | WG1730194 |
| *(S) 1,2-Dichloroethane-d4* | *98.4* | | | *70.0-130* | | *08/27/2021 01:41* | WG1730194 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 15.4 | | 1.74 | 4.32 | 1 | 09/01/2021 23:52 | WG1732517 |
| C28-C36 Motor Oil Range | 52.2 | | 0.296 | 4.32 | 1 | 09/01/2021 23:52 | WG1732517 |
| *(S) o-Terphenyl* | *77.2* | | | *18.0-148* | | *09/01/2021 23:52* | WG1732517 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.7 | | 1 | 08/31/2021 07:31 | WG1731702 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 103 | | 10.1 | 22.1 | 1 | 08/29/2021 04:41 | WG1731263 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0421 | B J | 0.0239 | 0.110 | 1 | 08/28/2021 13:02 | WG1730040 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *99.3* | | | *77.0-120* | | *08/28/2021 13:02* | WG1730040 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000563 | 0.00121 | 1 | 08/27/2021 02:00 | WG1730194 |
| Toluene | U | | 0.00157 | 0.00603 | 1 | 08/27/2021 02:00 | WG1730194 |
| Ethylbenzene | U | | 0.000888 | 0.00301 | 1 | 08/27/2021 02:00 | WG1730194 |
| Total Xylenes | U | | 0.00106 | 0.00784 | 1 | 08/27/2021 02:00 | WG1730194 |
| *(S) Toluene-d8* | *110* | | | *75.0-131* | | *08/27/2021 02:00* | WG1730194 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *08/27/2021 02:00* | WG1730194 |
| *(S) 1,2-Dichloroethane-d4* | *94.1* | | | *70.0-130* | | *08/27/2021 02:00* | WG1730194 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 64.3 | J3 J5 J6 | 3.55 | 8.82 | 2 | 09/02/2021 01:01 | WG1732517 |
| C28-C36 Motor Oil Range | 189 | | 0.604 | 8.82 | 2 | 09/02/2021 01:01 | WG1732517 |
| *(S) o-Terphenyl* | *64.9* | | | *18.0-148* | | *09/02/2021 01:01* | WG1732517 |

Sample Narrative:

L1393699-17 WG1732517: Dilution due to matrix impact during extraction procedure

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 90.6 | | 1 | 08/31/2021 07:31 | WG1731702 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 16.7 | J | 10.2 | 22.1 | 1 | 08/29/2021 04:51 | WG1731263 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0415 | B J | 0.0242 | 0.112 | 1.01 | 08/28/2021 13:26 | WG1730040 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.2* | | | *77.0-120* | | *08/28/2021 13:26* | WG1730040 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000564 | 0.00121 | 1 | 08/27/2021 02:19 | WG1730194 |
| Toluene | U | | 0.00157 | 0.00604 | 1 | 08/27/2021 02:19 | WG1730194 |
| Ethylbenzene | U | | 0.000891 | 0.00302 | 1 | 08/27/2021 02:19 | WG1730194 |
| Total Xylenes | U | | 0.00106 | 0.00786 | 1 | 08/27/2021 02:19 | WG1730194 |
| *(S) Toluene-d8* | *110* | | | *75.0-131* | | *08/27/2021 02:19* | WG1730194 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *08/27/2021 02:19* | WG1730194 |
| *(S) 1,2-Dichloroethane-d4* | *93.4* | | | *70.0-130* | | *08/27/2021 02:19* | WG1730194 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 71.2 | | 3.56 | 8.83 | 2 | 09/02/2021 00:33 | WG1732517 |
| C28-C36 Motor Oil Range | 223 | | 0.605 | 8.83 | 2 | 09/02/2021 00:33 | WG1732517 |
| *(S) o-Terphenyl* | *63.4* | | | *18.0-148* | | *09/02/2021 00:33* | WG1732517 |

Sample Narrative:

L1393699-18 WG1732517: Dilution due to matrix impact during extraction procedure

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.0 | | 1 | 08/31/2021 07:31 | WG1731702 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 129 | | 11.0 | 23.8 | 1 | 08/29/2021 05:00 | WG1731263 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0432 | B J | 0.0258 | 0.119 | 1 | 08/28/2021 13:50 | WG1730040 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *98.6* | | | *77.0-120* | | *08/28/2021 13:50* | WG1730040 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000645 | 0.00138 | 1 | 08/27/2021 02:38 | WG1730194 |
| Toluene | U | | 0.00179 | 0.00690 | 1 | 08/27/2021 02:38 | WG1730194 |
| Ethylbenzene | U | | 0.00102 | 0.00345 | 1 | 08/27/2021 02:38 | WG1730194 |
| Total Xylenes | U | | 0.00121 | 0.00897 | 1 | 08/27/2021 02:38 | WG1730194 |
| *(S) Toluene-d8* | *108* | | | *75.0-131* | | *08/27/2021 02:38* | WG1730194 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *08/27/2021 02:38* | WG1730194 |
| *(S) 1,2-Dichloroethane-d4* | *96.3* | | | *70.0-130* | | *08/27/2021 02:38* | WG1730194 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 5.74 | | 1.92 | 4.76 | 1 | 09/02/2021 20:22 | WG1732517 |
| C28-C36 Motor Oil Range | 19.5 | | 0.326 | 4.76 | 1 | 09/02/2021 20:22 | WG1732517 |
| *(S) o-Terphenyl* | *52.6* | | | *18.0-148* | | *09/02/2021 20:22* | WG1732517 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.6 | | 1 | 08/31/2021 07:31 | WG1731702 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 210 | | 10.6 | 23.1 | 1 | 08/29/2021 05:10 | WG1731263 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0401 | B J Q | 0.0251 | 0.115 | 1 | 09/05/2021 16:33 | WG1735363 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *102* | | | *77.0-120* | | *09/05/2021 16:33* | WG1735363 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000611 | 0.00131 | 1 | 08/27/2021 02:57 | WG1730194 |
| Toluene | U | | 0.00170 | 0.00655 | 1 | 08/27/2021 02:57 | WG1730194 |
| Ethylbenzene | U | | 0.000965 | 0.00327 | 1 | 08/27/2021 02:57 | WG1730194 |
| Total Xylenes | U | | 0.00115 | 0.00851 | 1 | 08/27/2021 02:57 | WG1730194 |
| *(S) Toluene-d8* | *108* | | | *75.0-131* | | *08/27/2021 02:57* | WG1730194 |
| *(S) 4-Bromofluorobenzene* | *103* | | | *67.0-138* | | *08/27/2021 02:57* | WG1730194 |
| *(S) 1,2-Dichloroethane-d4* | *93.7* | | | *70.0-130* | | *08/27/2021 02:57* | WG1730194 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.86 | 4.62 | 1 | 09/01/2021 20:01 | WG1732517 |
| C28-C36 Motor Oil Range | U | | 0.316 | 4.62 | 1 | 09/01/2021 20:01 | WG1732517 |
| *(S) o-Terphenyl* | *47.6* | | | *18.0-148* | | *09/01/2021 20:01* | WG1732517 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 84.5 | | 1 | 08/31/2021 07:31 | WG1731702 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 68.3 | | 10.9 | 23.7 | 1 | 08/29/2021 03:34 | WG1731267 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.0257 | 0.118 | 1 | 08/28/2021 21:05 | WG1731182 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *111* | | | *77.0-120* | | *08/28/2021 21:05* | WG1731182 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000638 | 0.00137 | 1 | 08/27/2021 03:16 | WG1730194 |
| Toluene | U | | 0.00178 | 0.00684 | 1 | 08/27/2021 03:16 | WG1730194 |
| Ethylbenzene | U | | 0.00101 | 0.00342 | 1 | 08/27/2021 03:16 | WG1730194 |
| Total Xylenes | U | | 0.00120 | 0.00889 | 1 | 08/27/2021 03:16 | WG1730194 |
| *(S) Toluene-d8* | *110* | | | *75.0-131* | | *08/27/2021 03:16* | WG1730194 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *08/27/2021 03:16* | WG1730194 |
| *(S) 1,2-Dichloroethane-d4* | *94.9* | | | *70.0-130* | | *08/27/2021 03:16* | WG1730194 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 9.78 | | 1.90 | 4.73 | 1 | 09/01/2021 22:08 | WG1732517 |
| C28-C36 Motor Oil Range | 21.9 | | 0.324 | 4.73 | 1 | 09/01/2021 22:08 | WG1732517 |
| *(S) o-Terphenyl* | *54.2* | | | *18.0-148* | | *09/01/2021 22:08* | WG1732517 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 86.3 | | 1 | 08/31/2021 07:31 | WG1731702 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 106 | | 10.7 | 23.2 | 1 | 08/29/2021 03:48 | WG1731267 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.0252 | 0.116 | 1 | 08/28/2021 21:26 | WG1731182 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *112* | | | *77.0-120* | | *08/28/2021 21:26* | WG1731182 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000616 | 0.00132 | 1 | 08/27/2021 03:35 | WG1730194 |
| Toluene | U | | 0.00172 | 0.00660 | 1 | 08/27/2021 03:35 | WG1730194 |
| Ethylbenzene | U | | 0.000972 | 0.00330 | 1 | 08/27/2021 03:35 | WG1730194 |
| Total Xylenes | U | | 0.00116 | 0.00858 | 1 | 08/27/2021 03:35 | WG1730194 |
| *(S) Toluene-d8* | *109* | | | *75.0-131* | | *08/27/2021 03:35* | WG1730194 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *08/27/2021 03:35* | WG1730194 |
| *(S) 1,2-Dichloroethane-d4* | *95.9* | | | *70.0-130* | | *08/27/2021 03:35* | WG1730194 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.87 | 4.64 | 1 | 09/01/2021 20:29 | WG1732517 |
| C28-C36 Motor Oil Range | 1.14 | J | 0.318 | 4.64 | 1 | 09/01/2021 20:29 | WG1732517 |
| *(S) o-Terphenyl* | *60.5* | | | *18.0-148* | | *09/01/2021 20:29* | WG1732517 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 81.0 | | 1 | 08/31/2021 07:31 | WG1731702 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 147 | | 11.4 | 24.7 | 1 | 08/29/2021 04:03 | WG1731267 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.0268 | 0.124 | 1 | 08/28/2021 21:48 | WG1731182 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *112* | | | *77.0-120* | | *08/28/2021 21:48* | WG1731182 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000687 | 0.00147 | 1 | 08/27/2021 03:54 | WG1730194 |
| Toluene | U | | 0.00191 | 0.00735 | 1 | 08/27/2021 03:54 | WG1730194 |
| Ethylbenzene | U | | 0.00108 | 0.00368 | 1 | 08/27/2021 03:54 | WG1730194 |
| Total Xylenes | U | | 0.00129 | 0.00956 | 1 | 08/27/2021 03:54 | WG1730194 |
| *(S) Toluene-d8* | *109* | | | *75.0-131* | | *08/27/2021 03:54* | WG1730194 |
| *(S) 4-Bromofluorobenzene* | *106* | | | *67.0-138* | | *08/27/2021 03:54* | WG1730194 |
| *(S) 1,2-Dichloroethane-d4* | *95.4* | | | *70.0-130* | | *08/27/2021 03:54* | WG1730194 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 2.20 | J | 1.99 | 4.94 | 1 | 09/01/2021 21:54 | WG1732517 |
| C28-C36 Motor Oil Range | 4.26 | J | 0.338 | 4.94 | 1 | 09/01/2021 21:54 | WG1732517 |
| *(S) o-Terphenyl* | *53.7* | | | *18.0-148* | | *09/01/2021 21:54* | WG1732517 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 89.8 | | 1 | 08/31/2021 07:31 | WG1731702 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 136 | | 10.2 | 22.3 | 1 | 08/29/2021 04:17 | WG1731267 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.0244 | 0.112 | 1.01 | 08/28/2021 22:10 | WG1731182 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *112* | | | *77.0-120* | | *08/28/2021 22:10* | WG1731182 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000573 | 0.00123 | 1 | 08/27/2021 04:13 | WG1730194 |
| Toluene | U | | 0.00159 | 0.00613 | 1 | 08/27/2021 04:13 | WG1730194 |
| Ethylbenzene | U | | 0.000904 | 0.00307 | 1 | 08/27/2021 04:13 | WG1730194 |
| Total Xylenes | U | | 0.00108 | 0.00797 | 1 | 08/27/2021 04:13 | WG1730194 |
| *(S) Toluene-d8* | *110* | | | *75.0-131* | | *08/27/2021 04:13* | WG1730194 |
| *(S) 4-Bromofluorobenzene* | *108* | | | *67.0-138* | | *08/27/2021 04:13* | WG1730194 |
| *(S) 1,2-Dichloroethane-d4* | *98.1* | | | *70.0-130* | | *08/27/2021 04:13* | WG1730194 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.79 | 4.45 | 1 | 09/01/2021 20:15 | WG1732517 |
| C28-C36 Motor Oil Range | U | | 0.305 | 4.45 | 1 | 09/01/2021 20:15 | WG1732517 |
| *(S) o-Terphenyl* | *65.0* | | | *18.0-148* | | *09/01/2021 20:15* | WG1732517 |

## Method Blank (MB)

(MB) R3698777-1 08/31/21 07:54

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00100 | | | |

## L1393699-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1393699-01 08/31/21 07:54 • (DUP) R3698777-3 08/31/21 07:54

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 75.4 | 74.9 | 1 | 0.692 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R3698777-2 08/31/21 07:54

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

## Method Blank (MB)

(MB) R3698775-1 08/31/21 07:44

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00100 | | | |

## L1393699-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1393699-11 08/31/21 07:44 • (DUP) R3698775-3 08/31/21 07:44

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 95.6 | 95.8 | 1 | 0.189 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R3698775-2 08/31/21 07:44

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

## Method Blank (MB)

(MB) R3698772-1 08/31/21 07:31

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00100 | | | |

## L1393699-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1393699-24 08/31/21 07:31 • (DUP) R3698772-3 08/31/21 07:31

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 89.8 | 89.9 | 1 | 0.116 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R3698772-2 08/31/21 07:31

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

## Method Blank (MB)

(MB) R3697923-1 08/29/21 00:15

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Chloride | U | | 9.20 | 20.0 |

## L1393699-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1393699-06 08/29/21 01:50 • (DUP) R3697923-3 08/29/21 02:00

| Analyte | Original Result (dry) mg/kg | DUP Result (dry) mg/kg | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Chloride | 182 | 181 | 1 | 0.371 | | 20 |

## L1393699-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1393699-20 08/29/21 05:10 • (DUP) R3697923-6 08/29/21 05:19

| Analyte | Original Result (dry) mg/kg | DUP Result (dry) mg/kg | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Chloride | 210 | 243 | 1 | 14.6 | | 20 |

## Laboratory Control Sample (LCS)

(LCS) R3697923-2 08/29/21 00:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Chloride | 200 | 194 | 96.9 | 90.0-110 | |

## L1393699-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1393699-06 08/29/21 01:50 • (MS) R3697923-4 08/29/21 02:28 • (MSD) R3697923-5 08/29/21 02:38

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 579 | 182 | 671 | 657 | 84.6 | 82.1 | 1 | 80.0-120 | | | 2.15 | 20 |

## Method Blank (MB)

(MB) R3697955-1 08/28/21 23:04

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Chloride | U | | 9.20 | 20.0 |

## L1393675-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1393675-01 08/29/21 01:24 • (DUP) R3697955-3 08/29/21 02:07

| Analyte | Original Result (dry) mg/kg | DUP Result (dry) mg/kg | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Chloride | 3670 | 3670 | 10 | 0.184 | | 20 |

## L1394128-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1394128-01 08/29/21 05:44 • (DUP) R3697955-4 08/29/21 05:58

| Analyte | Original Result (dry) mg/kg | DUP Result (dry) mg/kg | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Chloride | U | U | 1 | 0.000 | | 20 |

## Laboratory Control Sample (LCS)

(LCS) R3697955-2 08/28/21 23:18

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Chloride | 200 | 196 | 97.9 | 90.0-110 | |

## L1394128-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1394128-01 08/29/21 05:44 • (MS) R3697955-5 08/29/21 06:13 • (MSD) R3697955-6 08/29/21 06:27

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 636 | U | 546 | 547 | 85.8 | 86.0 | 1 | 80.0-120 | | | 0.130 | 20 |

## Method Blank (MB)

(MB) R3699672-2 08/28/21 06:19

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPH (GC/FID) Low Fraction | 0.0340 | J | 0.0217 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R3699672-1 08/28/21 05:32

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPH (GC/FID) Low Fraction | 5.50 | 5.50 | 100 | 72.0-127 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *108* | *77.0-120* | |

## L1393699-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1393699-01 08/28/21 06:43 • (MS) R3699672-3 08/28/21 14:37 • (MSD) R3699672-4 08/28/21 15:01

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPH (GC/FID) Low Fraction | 7.22 | 0.0480 | 3.96 | 4.22 | 54.2 | 57.7 | 1 | 10.0-151 | | | 6.16 | 28 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *101* | *103* | | *77.0-120* | | | | |

## Method Blank (MB)

(MB) R3698522-2 08/28/21 20:22

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPH (GC/FID) Low Fraction | U | | 0.0217 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *111* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R3698522-1 08/28/21 19:29

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPH (GC/FID) Low Fraction | 5.50 | 5.01 | 91.1 | 72.0-127 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *101* | *77.0-120* | |

## L1393699-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1393699-21 08/28/21 21:05 • (MS) R3698522-3 08/29/21 13:16 • (MSD) R3698522-4 08/29/21 13:37

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPH (GC/FID) Low Fraction | 6.51 | U | 0.682 | 0.721 | 10.5 | 11.1 | 1 | 10.0-151 | | | 5.57 | 28 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *107* | *108* | | *77.0-120* | | | | |

Received by OCD: 1/11/2022 8:46:36 PM


## Method Blank (MB)

(MB) R3700525-3 09/02/21 10:50

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPH (GC/FID) Low Fraction | U | | 0.0217 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *112* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R3700525-1 09/02/21 09:00

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPH (GC/FID) Low Fraction | 5.50 | 5.07 | 92.2 | 72.0-127 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *101* | *77.0-120* | |



Released to Imaging: 2/2/2022 8:25:18 AM

## Method Blank (MB)

(MB) R3700648-3 09/05/21 13:10

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPH (GC/FID) Low Fraction | 0.0297 | J | 0.0217 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *103* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R3700648-2 09/05/21 12:47

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPH (GC/FID) Low Fraction | 5.50 | 5.39 | 98.0 | 72.0-127 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *110* | *77.0-120* | |

## Method Blank (MB)

(MB) R3699650-3 08/26/21 22:22

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Benzene | U | | 0.000467 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *119* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *85.1* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *96.8* | | | *70.0-130* |

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

(LCS) R3699650-1 08/26/21 20:50 • (LCSD) R3699650-2 08/26/21 21:10

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.125 | 0.108 | 0.111 | 86.4 | 88.8 | 70.0-123 | | | 2.74 | 20 |
| Ethylbenzene | 0.125 | 0.125 | 0.130 | 100 | 104 | 74.0-126 | | | 3.92 | 20 |
| Toluene | 0.125 | 0.130 | 0.135 | 104 | 108 | 75.0-121 | | | 3.77 | 20 |
| Xylenes, Total | 0.375 | 0.369 | 0.373 | 98.4 | 99.5 | 72.0-127 | | | 1.08 | 20 |
| *(S) Toluene-d8* | | | | *115* | *111* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *90.1* | *86.6* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *104* | *103* | *70.0-130* | | | | |

## L1393699-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1393699-09 08/27/21 03:24 • (MS) R3699650-4 08/27/21 04:58 • (MSD) R3699650-5 08/27/21 05:17

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.167 | U | 0.0751 | 0.0936 | 45.0 | 56.2 | 1 | 10.0-149 | | | 22.0 | 37 |
| Ethylbenzene | 0.167 | U | 0.0867 | 0.109 | 52.0 | 65.6 | 1 | 10.0-160 | | | 23.1 | 38 |
| Toluene | 0.167 | U | 0.0954 | 0.116 | 57.2 | 69.8 | 1 | 10.0-156 | | | 19.9 | 38 |
| Xylenes, Total | 0.500 | U | 0.267 | 0.340 | 53.3 | 68.0 | 1 | 10.0-160 | | | 24.2 | 38 |
| *(S) Toluene-d8* | | | | | *118* | *117* | | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *88.6* | *93.2* | | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | | *99.4* | *100* | | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R3697692-3 08/27/21 00:45

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Benzene | U | | 0.000467 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *107* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *103* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *96.2* | | | *70.0-130* |

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

(LCS) R3697692-1 08/26/21 23:29 • (LCSD) R3697692-2 08/26/21 23:48

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.125 | 0.123 | 0.118 | 98.4 | 94.4 | 70.0-123 | | | 4.15 | 20 |
| Ethylbenzene | 0.125 | 0.119 | 0.120 | 95.2 | 96.0 | 74.0-126 | | | 0.837 | 20 |
| Toluene | 0.125 | 0.123 | 0.124 | 98.4 | 99.2 | 75.0-121 | | | 0.810 | 20 |
| Xylenes, Total | 0.375 | 0.382 | 0.378 | 102 | 101 | 72.0-127 | | | 1.05 | 20 |
| *(S) Toluene-d8* | | | | *104* | *107* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *105* | *102* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *103* | *102* | *70.0-130* | | | | |

## L1393699-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1393699-16 08/27/21 01:41 • (MS) R3697692-4 08/27/21 07:22 • (MSD) R3697692-5 08/27/21 07:41

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.145 | U | 0.109 | 0.0586 | 75.0 | 40.5 | 1 | 10.0-149 | | J3 | 59.7 | 37 |
| Ethylbenzene | 0.145 | U | 0.124 | 0.0627 | 85.6 | 43.3 | 1 | 10.0-160 | | J3 | 65.7 | 38 |
| Toluene | 0.145 | U | 0.122 | 0.0628 | 84.0 | 43.4 | 1 | 10.0-156 | | J3 | 63.8 | 38 |
| Xylenes, Total | 0.434 | U | 0.394 | 0.211 | 90.7 | 48.5 | 1 | 10.0-160 | | J3 | 60.5 | 38 |
| *(S) Toluene-d8* | | | | | *110* | *108* | | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *107* | *106* | | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | | *92.9* | *95.5* | | *70.0-130* | | | | |

## Method Blank (MB)

(MB) R3698734-1 08/31/21 17:32

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C10-C28 Diesel Range | U | | 1.61 | 4.00 |
| C28-C36 Motor Oil Range | U | | 0.274 | 4.00 |
| *(S) o-Terphenyl* | *57.7* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R3698734-2 08/31/21 17:47

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C10-C28 Diesel Range | 50.0 | 37.6 | 75.2 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *84.5* | *18.0-148* | |

## Method Blank (MB)

(MB) R3699521-1 09/01/21 19:03

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C10-C28 Diesel Range | U | | 1.61 | 4.00 |
| C28-C36 Motor Oil Range | U | | 0.274 | 4.00 |
| *(S) o-Terphenyl* | *64.0* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R3699521-2 09/01/21 19:18

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C10-C28 Diesel Range | 50.0 | 33.9 | 67.8 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *78.7* | *18.0-148* | |

## L1393699-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1393699-17 09/02/21 01:01 • (MS) R3699521-3 09/02/21 01:15 • (MSD) R3699521-4 09/02/21 01:29

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C10-C28 Diesel Range | 55.1 | 64.3 | 87.3 | 155 | 41.8 | 165 | 2 | 50.0-150 | J6 | J3 J5 | 56.1 | 20 |
| *(S) o-Terphenyl* | | | | | *77.8* | *68.8* | | *18.0-148* | | | | |

Sample Narrative:

OS: Dilution due to matrix impact during extraction procedure

## Guide to Reading and Understanding Your Laboratory Report

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

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

## Abbreviations and Definitions

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

| Qualifier | Description |
|---|---|
| B | The same analyte is found in the associated blank. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| Q | Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values. |

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LAO00356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

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

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

A207



L13[illegible]

Page : 1 of 3

**Analysis Request of Chain of Custody Record**

# Tetra Tech, Inc.

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

| | | | |
|---|---|---|---|
| **Client Name:** | Conoco Phillips | **Site Manager:** | Sam Abbott |
| **Project Name:** | Leamex 9 | **Contact Info:** | Email: sam.abbott@tetratech.com<br>Phone: 512-739-7874 |
| **Project Location:** (county, state) | Lea County, New Mexico | **Project #:** | 212C-MD-02533 |
| **Invoice to:** | Accounts Payable<br>901 West Wall Street, Suite 100 Midland, Texas 79701 | | |
| **Receiving Laboratory:** | Pace Analytical | **Sampler Signature:** | Devin Dominguez |
| **Comments:** | COPTETRA Acctnum | | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2021 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD NONE | | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B BTEX 8260B | TPH TX1005 (Ext to C35) | TPH 8015M ( GRO - DRO - ORO - MRO) | PAH 8270C | Total Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC/MS Vol. 8260B / 624 | GC/MS Semi. Vol. 8270C/625 | PCB's 8082 / 608 | NORM | PLM (Asbestos) | Chloride 300.0 | Chloride Sulfate TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | TPH 8015R | | HOLD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BH-1 (0-1') | 8/19/2021 | 1200 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | 01 | |
| | BH-1 (2'-3') | 8/19/2021 | 1205 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | 02 | |
| | BH-1 (4'-5') | 8/19/2021 | 1210 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | 03 | |
| | BH-1 (6'-7') | 8/19/2021 | 1215 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | 04 | |
| | BH-1 (9'-10') | 8/19/2021 | 1220 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | 05 | |
| | BH-1 (14'-15') | 8/19/2021 | 1225 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | 06 | |
| | BH-2 (0-1') | 8/19/2021 | 1230 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | 07 | |
| | BH-2 (2'-3') | 8/19/2021 | 1235 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | 08 | |
| | BH-2 (4'-5') | 8/19/2021 | 1240 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | 09 | |
| | BH-2 (6'-7') | 8/19/2021 | 1245 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | 10 | |

| | | | | |
|---|---|---|---|---|
| Relinquished by: DD | Date: 8/20/21 | Time: 1300 | Received by: [signature] | Date: 8-2021 Time: 13:00 |
| Relinquished by: | Date: | Time: | Received by: | Date: Time: |
| Relinquished by: | Date: | Time: | Received by: [signature] | Date: 8/21/21 Time: 9:45 |

ORIGINAL COPY

**LAB USE ONLY**

Sample Temperature

**REMARKS:**

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

2.7+0 = 2.7 A2 DL

L1345627

Page : 2 of 3

**Analysis Request of Chain of Custody Record**

# Tetra Tech, Inc.

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

| | | | |
|---|---|---|---|
| **Client Name:** | Conoco Phillips | **Site Manager:** | Sam Abbott |
| **Project Name:** | Leamex 9 | **Contact Info:** | Email: sam.abbott@tetratech.com<br>Phone: 512-739-7874 |
| **Project Location: (county, state)** | Lea County, New Mexico | **Project #:** | 212C-MD-02533 |
| **Invoice to:** | Accounts Payable<br>901 West Wall Street, Suite 100 Midland, Texas 79701 | | |
| **Receiving Laboratory:** | Pace Analytical | **Sampler Signature:** | Devin Dominguez |
| **Comments:** | COPTETRA Acctnum | | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2021 DATE | SAMPLING TIME | MATRIX: WATER | MATRIX: SOIL | MATRIX: | PRESERVATIVE METHOD: HCL | PRESERVATIVE METHOD: $HNO_3$ | PRESERVATIVE METHOD: ICE | PRESERVATIVE METHOD: NONE | PRESERVATIVE METHOD: | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B BTEX 8260B | TPH TX1005 (Ext to C35) | TPH 8015M ( GRO - DRO - ORO - MRO) | PAH 8270C | Total Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC/MS Vol. 8260B / 624 | GC/MS Semi. Vol. 8270C/625 | PCB's 8082 / 608 | NORM | PLM (Asbestos) | Chloride 300.0 | Chloride Sulfate TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | TPH 8015R | HOLD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BH-2 (9'-10') | 8/19/2021 | 1250 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | -11 |
| | BH-2 (14'-15') | 8/19/2021 | 1255 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | -12 |
| | H-9 (0-1') | 8/19/2021 | 1300 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | -13 |
| | H-9 (1'-2') | 8/19/2021 | 1305 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | -14 |
| | H-9 (2'-3') | 8/19/2021 | 1310 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | -15 |
| | H-9 (3'-4') | 8/19/2021 | 1315 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | -16 |
| | H-10 (0-1') | 8/19/2021 | 1320 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | -17 |
| | H-10 (1'-2') | 8/19/2021 | 1325 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | -18 |
| | H-10 (2'-3') | 8/19/2021 | 1330 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | -19 |
| | H-10 (3'-4') | 8/19/2021 | 1335 | | X | | | | X | | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | -20 |

| | | | |
|---|---|---|---|
| Relinquished by: DD | Date: 8/20/21 | Time: 1300 | Received by: | Date: 8-20-21 | Time: 1340 |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
| Relinquished by: | Date: | Time: | Received by: | Date: 8/21/21 | Time: 9:45 |

ORIGINAL COPY

**LAB USE ONLY**

Sample Temperature

**REMARKS:**

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

2.7+0=2.7 AZ RM

L13

Page : 3 of 3

**Analysis Request of Chain of Custody Record**

# Tetra Tech, Inc.

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

| | | | |
|---|---|---|---|
| **Client Name:** | Conoco Phillips | **Site Manager:** | Sam Abbott |
| **Project Name:** | Leamex 9 | **Contact Info:** | Email: sam.abbott@tetratech.com<br>Phone: 512-739-7874 |
| **Project Location: (county, state)** | Lea County, New Mexico | **Project #:** | 212C-MD-02533 |
| **Invoice to:** | Accounts Payable<br>901 West Wall Street, Suite 100 Midland, Texas 79701 | | |
| **Receiving Laboratory:** | Pace Analytical | **Sampler Signature:** | Devin Dominguez |

**Comments:** COPTETRA Acctnum

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2021 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD NONE | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B BTEX 8260B | TPH TX1005 (Ext to C35) | TPH 8015M ( GRO - DRO - ORO - MRO) | PAH 8270C | Total Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC/MS Vol. 8260B / 624 | GC/MS Semi. Vol. 8270C/625 | PCBs 8082 / 608 | NORM | PLM (Asbestos) | Chloride 300.0 | Chloride Sulfate TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | TPH 8015R | | HOLD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H-11 (0-1') | 8/19/2021 | 1340 | | X | | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | 21 | |
| | H-11 (1'-2') | 8/19/2021 | 1345 | | X | | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | 22 | |
| | H-11 (2'-3') | 8/19/2021 | 1350 | | X | | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | 23 | |
| | H-11 (3'-4') | 8/19/2021 | 1355 | | X | | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | 24 | |

Sample Receipt Checklist

| | | | |
|---|---|---|---|
| COC Seal Present/Intact: | Y N | If Applicable | |
| COC Signed/Accurate: | Y N | VOA Zero Headspace: | Y N |
| Bottles arrive intact: | Y N | Pres.Correct/Check: | Y N |
| Correct bottles used: | Y N | | |
| Sufficient volume sent: | Y N | | |
| RAD Screen <0.5 mR/hr: | Y N | | |

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: DD | Date: 8/20/21 | Time: 1300 | Received by: | Date: 8-20-21 | Time: 13:00 |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: |
| Relinquished by: | Date: | Time: | Received by: | Date: 8/21/21 | Time: 9:45 |

ORIGINAL COPY

**LAB USE ONLY**

Sample Temperature

**REMARKS:**

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

2.7±0=2.7 A2BR

Pace Analytical®

# ANALYTICAL REPORT

October 05, 2021



## ConocoPhillips - Tetra Tech

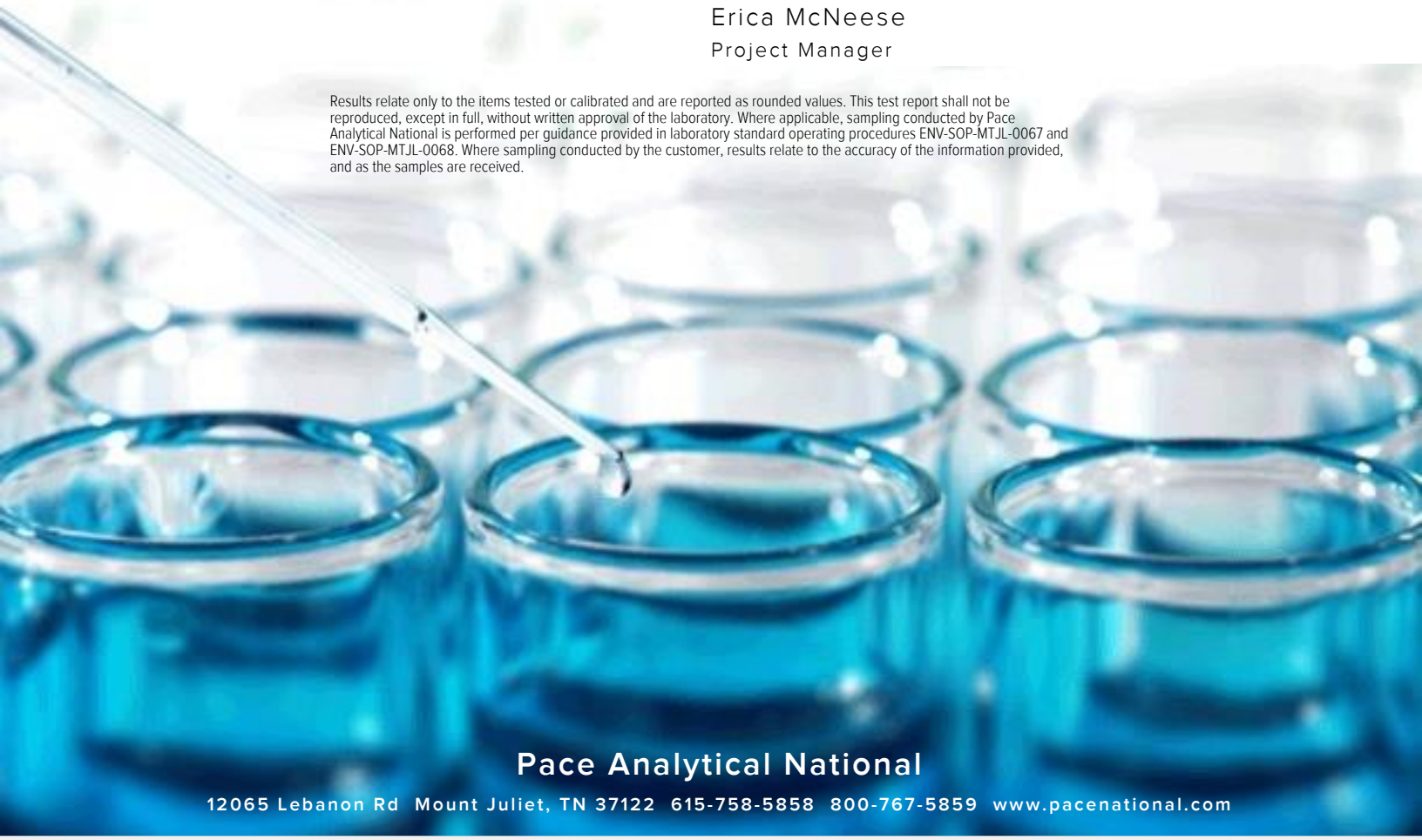
| | |
|---|---|
| Sample Delivery Group: | L1407433 |
| Samples Received: | 09/22/2021 |
| Project Number: | 212C-MD-02533TASK100 |
| Description: | Leamex 9 |

Report To: Christian Llull
901 West Wall
Suite 100
Midland, TX 79701

Entire Report Reviewed By: Erica McNeese

Erica McNeese
Project Manager

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



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

# TABLE OF CONTENTS

## H-11 (0-1') L1407433-01 Solid

Collected by: Devin Dominguez
Collected date/time: 09/20/21 13:50
Received date/time: 09/22/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1747731 | 1 | 09/29/21 17:54 | 09/29/21 18:03 | CMK | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1748692 | 1 | 09/29/21 17:57 | 09/29/21 21:23 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1750716 | 1 | 09/24/21 16:31 | 10/04/21 03:20 | BMB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1746386 | 1 | 09/24/21 16:31 | 09/25/21 03:53 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1749735 | 1 | 10/01/21 12:01 | 10/01/21 23:29 | JDG | Mt. Juliet, TN |

## H-12 (0-1') L1407433-02 Solid

Collected by: Devin Dominguez
Collected date/time: 09/20/21 14:00
Received date/time: 09/22/21 09:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG1747731 | 1 | 09/29/21 17:54 | 09/29/21 18:03 | CMK | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1748692 | 1 | 09/29/21 17:57 | 09/29/21 21:32 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1749966 | 1 | 09/24/21 16:31 | 10/02/21 06:51 | DWR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1746386 | 1 | 09/24/21 16:31 | 09/25/21 04:12 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015M | WG1749735 | 1 | 10/01/21 12:01 | 10/01/21 23:43 | JDG | 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.

Erica McNeese
Project Manager

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 79.0 | | 1 | 09/29/2021 18:03 | WG1747731 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 15.6 | J | 11.7 | 25.3 | 1 | 09/29/2021 21:23 | WG1748692 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0491 | J | 0.0275 | 0.127 | 1 | 10/04/2021 03:20 | WG1750716 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *101* | | | *77.0-120* | | *10/04/2021 03:20* | WG1750716 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000716 | 0.00153 | 1 | 09/25/2021 03:53 | WG1746386 |
| Toluene | U | | 0.00199 | 0.00767 | 1 | 09/25/2021 03:53 | WG1746386 |
| Ethylbenzene | U | | 0.00113 | 0.00383 | 1 | 09/25/2021 03:53 | WG1746386 |
| Total Xylenes | U | | 0.00135 | 0.00997 | 1 | 09/25/2021 03:53 | WG1746386 |
| *(S) Toluene-d8* | *111* | | | *75.0-131* | | *09/25/2021 03:53* | WG1746386 |
| *(S) 4-Bromofluorobenzene* | *96.8* | | | *67.0-138* | | *09/25/2021 03:53* | WG1746386 |
| *(S) 1,2-Dichloroethane-d4* | *105* | | | *70.0-130* | | *09/25/2021 03:53* | WG1746386 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 2.04 | J | 2.04 | 5.07 | 1 | 10/01/2021 23:29 | WG1749735 |
| C28-C36 Motor Oil Range | 3.39 | J | 0.347 | 5.07 | 1 | 10/01/2021 23:29 | WG1749735 |
| *(S) o-Terphenyl* | *36.0* | | | *18.0-148* | | *10/01/2021 23:29* | WG1749735 |

## Total Solids by Method 2540 G-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 97.4 | | 1 | 09/29/2021 18:03 | WG1747731 |

## Wet Chemistry by Method 300.0

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | U | | 9.45 | 20.5 | 1 | 09/29/2021 21:32 | WG1748692 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0394 | B J | 0.0223 | 0.103 | 1 | 10/02/2021 06:51 | WG1749966 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *90.5* | | | *77.0-120* | | *10/02/2021 06:51* | WG1749966 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000492 | 0.00105 | 1 | 09/25/2021 04:12 | WG1746386 |
| Toluene | U | | 0.00137 | 0.00527 | 1 | 09/25/2021 04:12 | WG1746386 |
| Ethylbenzene | U | | 0.000777 | 0.00263 | 1 | 09/25/2021 04:12 | WG1746386 |
| Total Xylenes | 0.00119 | J | 0.000927 | 0.00685 | 1 | 09/25/2021 04:12 | WG1746386 |
| *(S) Toluene-d8* | *111* | | | *75.0-131* | | *09/25/2021 04:12* | WG1746386 |
| *(S) 4-Bromofluorobenzene* | *97.6* | | | *67.0-138* | | *09/25/2021 04:12* | WG1746386 |
| *(S) 1,2-Dichloroethane-d4* | *107* | | | *70.0-130* | | *09/25/2021 04:12* | WG1746386 |

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

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 2.82 | J | 1.65 | 4.11 | 1 | 10/01/2021 23:43 | WG1749735 |
| C28-C36 Motor Oil Range | 9.33 | | 0.281 | 4.11 | 1 | 10/01/2021 23:43 | WG1749735 |
| *(S) o-Terphenyl* | *64.5* | | | *18.0-148* | | *10/01/2021 23:43* | WG1749735 |

## Method Blank (MB)

(MB) R3710589-1 09/29/21 18:03

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00100 | | | |

## L1407436-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1407436-01 09/29/21 18:03 • (DUP) R3710589-3 09/29/21 18:03

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 90.2 | 90.4 | 1 | 0.156 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R3710589-2 09/29/21 18:03

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

## Method Blank (MB)

(MB) R3710902-1 09/29/21 18:39

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Chloride | U | | 9.20 | 20.0 |

## L1407424-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1407424-01 09/29/21 19:38 • (DUP) R3710902-3 09/29/21 19:48

| Analyte | Original Result (dry) mg/kg | DUP Result (dry) mg/kg | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Chloride | 13.8 | 13.5 | 1 | 2.24 | J | 20 |

## L1409196-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1409196-03 09/29/21 23:07 • (DUP) R3710902-6 09/29/21 23:17

| Analyte | Original Result (dry) | DUP Result (dry) | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Chloride | 15.7 | 14.8 | 1 | 6.12 | J | 20 |

## Laboratory Control Sample (LCS)

(LCS) R3710902-2 09/29/21 18:48

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Chloride | 200 | 199 | 99.3 | 90.0-110 | |

## L1407424-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1407424-01 09/29/21 19:38 • (MS) R3710902-4 09/29/21 19:57 • (MSD) R3710902-5 09/29/21 20:07

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 620 | 13.8 | 480 | 522 | 75.2 | 82.0 | 1 | 80.0-120 | J6 | | 8.38 | 20 |

## Method Blank (MB)

(MB) R3711826-2 10/02/21 05:45

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPH (GC/FID) Low Fraction | 0.0284 | J | 0.0217 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *88.1* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R3711826-1 10/02/21 05:01

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPH (GC/FID) Low Fraction | 5.50 | 4.33 | 78.7 | 72.0-127 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *103* | *77.0-120* | |

## Method Blank (MB)

(MB) R3712640-2 10/04/21 02:32

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPH (GC/FID) Low Fraction | U | | 0.0217 | 0.100 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *103* | | | *77.0-120* |

## Laboratory Control Sample (LCS)

(LCS) R3712640-1 10/04/21 01:45

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPH (GC/FID) Low Fraction | 5.50 | 6.46 | 117 | 72.0-127 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *101* | *77.0-120* | |

## Method Blank (MB)

(MB) R3709977-3 09/24/21 23:00

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Benzene | U | | 0.000467 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *110* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *93.8* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *108* | | | *70.0-130* |

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

(LCS) R3709977-1 09/24/21 21:28 • (LCSD) R3709977-2 09/24/21 21:47

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.125 | 0.106 | 0.115 | 84.8 | 92.0 | 70.0-123 | | | 8.14 | 20 |
| Ethylbenzene | 0.125 | 0.120 | 0.129 | 96.0 | 103 | 74.0-126 | | | 7.23 | 20 |
| Toluene | 0.125 | 0.110 | 0.122 | 88.0 | 97.6 | 75.0-121 | | | 10.3 | 20 |
| Xylenes, Total | 0.375 | 0.340 | 0.368 | 90.7 | 98.1 | 72.0-127 | | | 7.91 | 20 |
| *(S) Toluene-d8* | | | | *103* | *105* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *101* | *99.4* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *112* | *112* | *70.0-130* | | | | |

## L1407245-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1407245-01 09/25/21 06:26 • (MS) R3709977-4 09/25/21 06:45 • (MSD) R3709977-5 09/25/21 08:01

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 2.62 | 0.0298 | 1.39 | 2.61 | 51.7 | 98.3 | 20 | 10.0-149 | | J3 | 61.2 | 37 |
| Ethylbenzene | 2.62 | 1.10 | 3.10 | 4.49 | 76.2 | 129 | 20 | 10.0-160 | | | 36.7 | 38 |
| Toluene | 2.62 | 0.690 | 2.35 | 3.56 | 63.4 | 110 | 20 | 10.0-156 | | J3 | 41.0 | 38 |
| Xylenes, Total | 7.86 | 7.29 | 14.9 | 18.4 | 97.1 | 142 | 20 | 10.0-160 | | | 20.9 | 38 |
| *(S) Toluene-d8* | | | | | *104* | *103* | | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | | *105* | *107* | | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | | *111* | *108* | | *70.0-130* | | | | |

**Sample Narrative:**

OS: Non-target compounds too high to run at a lower dilution.

## Method Blank (MB)

(MB) R3711654-1 10/01/21 18:44

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C10-C28 Diesel Range | U | | 1.61 | 4.00 |
| C28-C36 Motor Oil Range | U | | 0.274 | 4.00 |
| *(S) o-Terphenyl* | *69.1* | | | *18.0-148* |

## Laboratory Control Sample (LCS)

(LCS) R3711654-2 10/01/21 18:57

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C10-C28 Diesel Range | 50.0 | 39.1 | 78.2 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *71.6* | *18.0-148* | |

## L1407433-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1407433-02 10/01/21 23:43 • (MS) R3711654-3 10/01/21 23:56 • (MSD) R3711654-4 10/02/21 00:10

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C10-C28 Diesel Range | 48.7 | 2.82 | 37.0 | 44.5 | 70.1 | 85.2 | 1 | 50.0-150 | | | 18.4 | 20 |
| *(S) o-Terphenyl* | | | | | *60.0* | *73.0* | | *18.0-148* | | | | |

## Guide to Reading and Understanding Your Laboratory Report

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

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

## Abbreviations and Definitions

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

| Qualifier | Description |
|---|---|
| B | The same analyte is found in the associated blank. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

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

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

B053

**Analysis Request of Chain of Custody Record**

Page 1 of 1

# Tetra Tech, Inc.

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

L1407433

| | | | |
|---|---|---|---|
| **Client Name:** | ConocoPhillips | **Site Manager:** | Christian Llull |
| **Project Name:** | Leamex 9 | | |
| **Project Location: (county, state)** | Lea County, New Mexico | **Project #:** | 212C-MD-02533 Task 100 |
| **Invoice to:** | Accounts Payable<br>901 West Wall Street, Suite 100 Midland, Texas 79701 | | |
| **Receiving Laboratory:** | Pace Analytical | **Sampler Signature:** | Devin Dominguez |
| **Comments:** | COPTETRA Acctnum | | |

**ANALYSIS REQUEST**
**(Circle or Specify Method No.)**

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING YEAR: 2021 DATE | SAMPLING TIME | MATRIX WATER | MATRIX SOIL | MATRIX | PRESERVATIVE METHOD HCL | PRESERVATIVE METHOD $HNO_3$ | PRESERVATIVE METHOD ICE | PRESERVATIVE METHOD None | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B BTEX 8260B | TPH TX1005 (Ext to C35) | TPH 8015M ( GRO - DRO - ORO - MRO) | PAH 8270C | Total Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC/MS Vol. 8260B / 624 | GC/MS Semi. Vol. 8270C/625 | PCB's 8082 / 608 | NORM | PLM (Asbestos) | Chloride | Chloride Sulfate TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | TPH 8015R | | | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -01 | H-11 (0-1') | 9/20/2021 | 1350 | | X | | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| -02 | H-12 (0-1') | 9/20/2021 | 1400 | | X | | | | X | | 1 | N | X | | X | | | | | | | | | | | | X | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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Sample Receipt Checklist

| | | | |
|---|---|---|---|
| COC Seal Present/Intact: | Y N | If Applicable | |
| COC Signed/Accurate: | Y N | VOA Zero Headspace: | Y N |
| Bottles arrive intact: | Y N | Pres.Correct/Check: | Y N |
| Correct bottles used: | Y N | | |
| Sufficient volume sent: | Y N | | |
| RAD Screen <0.5 mR/hr: | Y N | | |

| | | | |
|---|---|---|---|
| Relinquished by: | Date: 9/21/21 | Time: 900 | Received by: Date: 9/22/21 Time: 945 |
| Relinquished by: | Date: | Time: | Received by: Date: Time: |
| Relinquished by: | Date: | Time: | Received by: Date: Time: |

**LAB USE ONLY**

Sample Temperature
2.6 to 2.6
-0.3 +

**REMARKS:**

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

# APPENDIX D
# Boring Logs

212C-MD-02533 | TETRA TECH | **LOG OF BORING BH-1** | Page 1 of 2

Project Name: Leamex 9

Borehole Location: GPS: 32.829285°, -103.666524° | Surface Elevation: 4186 ft

Borehole Number: BH-1 | Borehole Diameter (in.): 8 | Date Started: 8/19/2021 | Date Finished: 8/19/2021

WATER LEVEL OBSERVATIONS

While Drilling ▽ Dry ft Upon Completion of Drilling ▼ Dry ft

Remarks:

| DEPTH (ft) | SAMPLE | CHLORIDE FIELD SCREENING (ppm) ExStik | VOC FIELD SCREENING (ppm) PID | MATERIAL DESCRIPTION | DEPTH (ft) | REMARKS |
|---|---|---|---|---|---|---|
| | | 469 | 2.6 | **-ML-** SILT: Brown, dry, loose, with abundant small angular gravel, no staining, low odor. | 1 | BH-1 (0'-1') |
| | | 307 | 1.1 | **-CALICHE-** CALICHE: Light tan to dark gray, dry, hard, heavily cemented, with some sand and clay, no staining, no odor. | | BH-1 (2'-3') |
| 5 | | 425 | 0.7 | -- Very light tan @ 4' | | BH-1 (4'-5') |
| | | 378 | 0.1 | | | BH-1 (6'-7') |
| | | | | | 9 | |
| 10 | | 145 | 0.1 | **-ML-** SILT: Light tan, dry, medium dense, moderately cemented, with caliche gravel, no staining, no odor. | | BH-1 (9'-10') |
| 15 | | 111 | 0.1 | | | BH-1 (14'-15') |
| 20 | | 0 | 0 | | 20 | |
| | | | | **-ML-** SILT: Light tan, dry, loose, weakly cemented, chalky, uniform, no staining, no odor. | | |
| 25 | | 0 | 0 | | | |
| 30 | | 0 | 0 | | | |

Sampler Types: Split Spoon, Shelby, Bulk Sample, Grab Sample, Acetate Liner, Vane Shear, Discrete Sample, Test Pit

Operation Types: Mud Rotary, Continuous Flight Auger, Wash Rotary, Hand Auger, Air Rotary, Direct Push, Core Barrel

Notes:

Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value based on Google Earth data.

Logger: Devin Dominguez | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

| 212C-MD-02533 | TETRA TECH | **LOG OF BORING BH-1** | Page 2 of 2 |
|---|---|---|---|

Project Name: Leamex 9

Borehole Location: GPS: 32.829285°, -103.666524° | Surface Elevation: 4186 ft

Borehole Number: BH-1 | Borehole Diameter (in.): 8 | Date Started: 8/19/2021 | Date Finished: 8/19/2021

WATER LEVEL OBSERVATIONS

While Drilling ▽ Dry ft Upon Completion of Drilling ▼ Dry ft

Remarks:

| DEPTH (ft) | OPERATION TYPE | SAMPLE | CHLORIDE FIELD SCREENING (ppm) ExStik | VOC FIELD SCREENING (ppm) PID | SAMPLE RECOVERY (%) | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | LIQUID LIMIT LL | PLASTICITY INDEX PI | MINUS NO. 200 (%) | GRAPHIC LOG | MATERIAL DESCRIPTION | DEPTH (ft) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35 | | | 0 | 0 | | | | | | | | | | |
| 40 | | | 0 | 0 | | | | | | | | | | |
| 45 | | | 0 | 0 | | | | | | | | | | |
| 49 | | | | | | | | | | | | | 49 | |
| 50 | | | 0 | 0 | | | | | | | | **-ML-** SILT: Brown, dry, loose, weakly cemented, friable, no staining, no odor. | | |
| 55 | | | 0 | 0 | | | | | | | | | 55 | |

Bottom of borehole at 55.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, Discrete Sample, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:

Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value based on Google Earth data.

Logger: Devin Dominguez | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-02533 | TETRA TECH | **LOG OF BORING BH-2** | Page 1 of 1

Project Name: Leamex 9

Borehole Location: GPS: 32.829180°, -103.666589° | Surface Elevation: 4186 ft

Borehole Number: BH-2 | Borehole Diameter (in.): 8 | Date Started: 8/19/2021 | Date Finished: 8/19/2021

WATER LEVEL OBSERVATIONS

While Drilling ▽ Dry ft Upon Completion of Drilling ▼ Dry ft

Remarks:

| DEPTH (ft) | OPERATION TYPE | SAMPLE | CHLORIDE FIELD SCREENING (ppm) ExStik | VOC FIELD SCREENING (ppm) PID | SAMPLE RECOVERY (%) | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | LIQUID LIMIT LL | PLASTICITY INDEX PI | MINUS NO. 200 (%) | GRAPHIC LOG | MATERIAL DESCRIPTION | DEPTH (ft) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 972 | 15.7 | | | | | | | | **-ML-** SILT: Brown, dry, loose, with abundant small angular gravel, no staining, low odor. | 1 | BH-2 (0'-1') |
| | | | 5.33 | 10.1 | | | | | | | | **-CALICHE-** CALICHE: Light tan to dark gray, dry, hard, heavily cemented, with some sand and clay, no staining, no odor. | | BH-2 (2'-3') |
| 5 | | | 2260 | 5.5 | | | | | | | | -- Very light tan @ 4' | | BH-2 (4'-5') |
| | | | 71.6 | 0.3 | | | | | | | | | | BH-2 (6'-7') |
| | | | | | | | | | | | | | 9 | |
| 10 | | | 63.2 | 0.1 | | | | | | | | **-ML-** SILT: Light tan, dry, medium dense, moderately cemented, with caliche gravel, no staining, no odor. | | BH-2 (9'-10') |
| 15 | | | 62.3 | 0.1 | | | | | | | | | 15 | BH-2 (14'-15') |

Bottom of borehole at 15.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, Discrete Sample, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:

Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value based on Google Earth data.

Logger: Devin Dominguez | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

| 212C-MD-02533 | TETRA TECH | **LOG OF BORING H-9** | Page 1 of 1 |
|---|---|---|---|

Project Name: Leamex 9

Borehole Location: GPS: 32.829355°, -103.666498° | Surface Elevation: 4186 ft

Borehole Number: H-9 | Borehole Diameter (in.): 8 | Date Started: 8/19/2021 | Date Finished: 8/19/2021

WATER LEVEL OBSERVATIONS

While Drilling ▽ Dry ft Upon Completion of Drilling ▼ Dry ft

Remarks:

| DEPTH (ft) | OPERATION TYPE | SAMPLE | CHLORIDE FIELD SCREENING (ppm) ExStik | VOC FIELD SCREENING (ppm) PID | SAMPLE RECOVERY (%) | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | LIQUID LIMIT LL | PLASTICITY INDEX PI | MINUS NO. 200 (%) | GRAPHIC LOG | MATERIAL DESCRIPTION | DEPTH (ft) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 126 | 0 | | | | | | | | **-ML-** SILT: Brown, dry, loose, with abundant small angular gravel, no staining, low odor. | 1 | H-9 (0'-1') |
| | | | 112 | 0 | | | | | | | | **-CALICHE-** CALICHE: Light tan to dark gray, dry, hard, heavily cemented, with some sand and clay, no staining, no odor. | | H-9 (1'-2') |
| | | | 98.0 | 0 | | | | | | | | | | H-9 (2'-3') |
| | | | 89.8 | 0 | | | | | | | | | 4 | H-9 (3'-4') |

Bottom of borehole at 4.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, Discrete Sample, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:

Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value based on Google Earth data.

Logger: Devin Dominguez | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

Received by OCD: 1/11/2022 8:46:36 PM


212C-MD-02533 | TETRA TECH

# LOG OF BORING H-10

Page 1 of 1

Project Name: Leamex 9

Borehole Location: GPS: 32.829370°, -103.666690° | Surface Elevation: 4186 ft

Borehole Number: H-10 | Borehole Diameter (in.): 8 | Date Started: 8/19/2021 | Date Finished: 8/19/2021

WATER LEVEL OBSERVATIONS

While Drilling ▽ Dry ft Upon Completion of Drilling ▼ Dry ft

Remarks:

| DEPTH (ft) | OPERATION TYPE | SAMPLE | CHLORIDE FIELD SCREENING (ppm) ExStik | VOC FIELD SCREENING (ppm) PID | SAMPLE RECOVERY (%) | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | LIQUID LIMIT LL | PLASTICITY INDEX PI | MINUS NO. 200 (%) | GRAPHIC LOG | MATERIAL DESCRIPTION | DEPTH (ft) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 333 | 0 | | | | | | | | **-ML-** SILT: Brown, dry, loose, with abundant small angular gravel, no staining, low odor. | 1 | H-10 (0'-1') |
| | | | 183 | 0 | | | | | | | | **-CALICHE-** CALICHE: Light tan to dark gray, dry, hard, heavily cemented, with some sand and clay, no staining, no odor. | | H-10 (1'-2') |
| | | | 191 | 0 | | | | | | | | | | H-10 (2'-3') |
| | | | 200 | 0 | | | | | | | | | 4 | H-10 (3'-4') |

Bottom of borehole at 4.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, Discrete Sample, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:

Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value based on Google Earth data.

Logger: Devin Dominguez | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling



Released to Imaging: 2/2/2022 8:25:18 AM

212C-MD-02533 | TETRA TECH | **LOG OF BORING H-11** | Page 1 of 1

Project Name: Leamex 9

Borehole Location: GPS: 32.829288°, -103.666561° | Surface Elevation: 4186 ft

Borehole Number: H-11 | Borehole Diameter (in.): 8 | Date Started: 8/19/2021 | Date Finished: 8/19/2021

WATER LEVEL OBSERVATIONS

While Drilling ▽ Dry ft Upon Completion of Drilling ▼ Dry ft

Remarks:

| DEPTH (ft) | OPERATION TYPE | SAMPLE | CHLORIDE FIELD SCREENING (ppm) ExStik | VOC FIELD SCREENING (ppm) PID | SAMPLE RECOVERY (%) | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | LIQUID LIMIT LL | PLASTICITY INDEX PI | MINUS NO. 200 (%) | GRAPHIC LOG | MATERIAL DESCRIPTION | DEPTH (ft) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 107 | 0 | | | | | | | | **-ML-** SILT: Brown, dry, loose, with abundant small angular gravel, no staining, low odor. | 1 | H-11 (0'-1') |
| | | | 103 | 0 | | | | | | | | | | H-11 (1'-2') |
| | | | 108 | 0 | | | | | | | | **-CALICHE-** CALICHE: Light tan to dark gray, dry, hard, heavily cemented, with some sand and clay, no staining, no odor. | | H-11 (2'-3') |
| | | | 156 | 0 | | | | | | | | | 4 | H-11 (3'-4') |

Bottom of borehole at 4.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, Discrete Sample, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

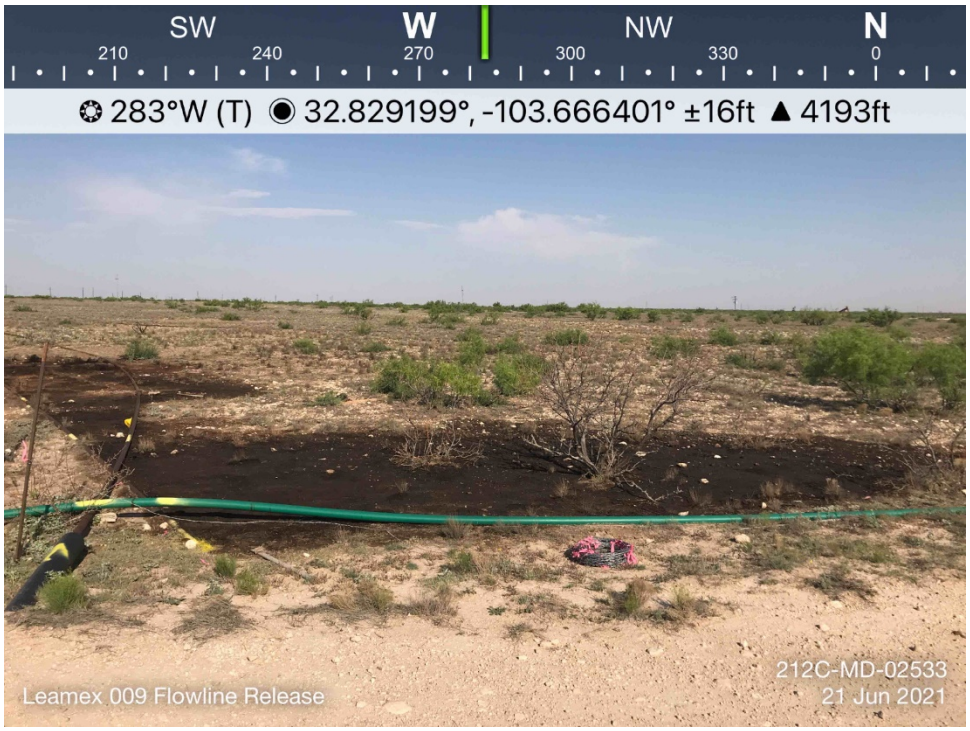
Notes:

Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value based on Google Earth data.

Logger: Devin Dominguez | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

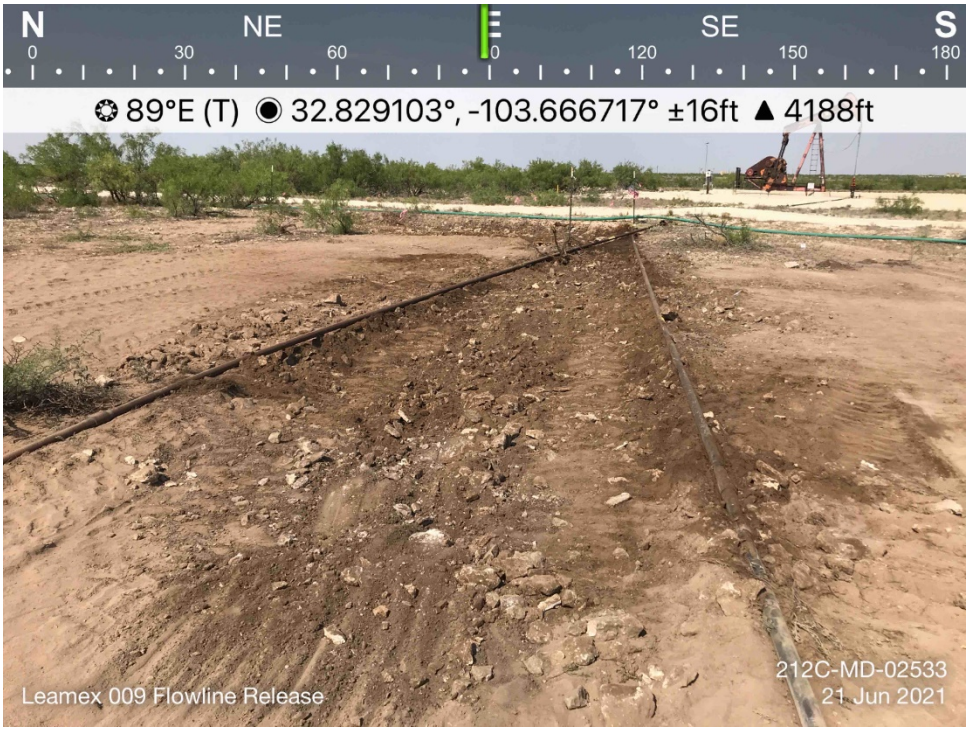
# APPENDIX E
# Photographic Documentation


| | | | |
|---|---|---|---|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-02533 | DESCRIPTION | View north-northeast. 'Leamex 009' lease signage. | 1 |
| | SITE NAME | ConocoPhillips Leamex 009 Flowline Release | 6/21/2021 |

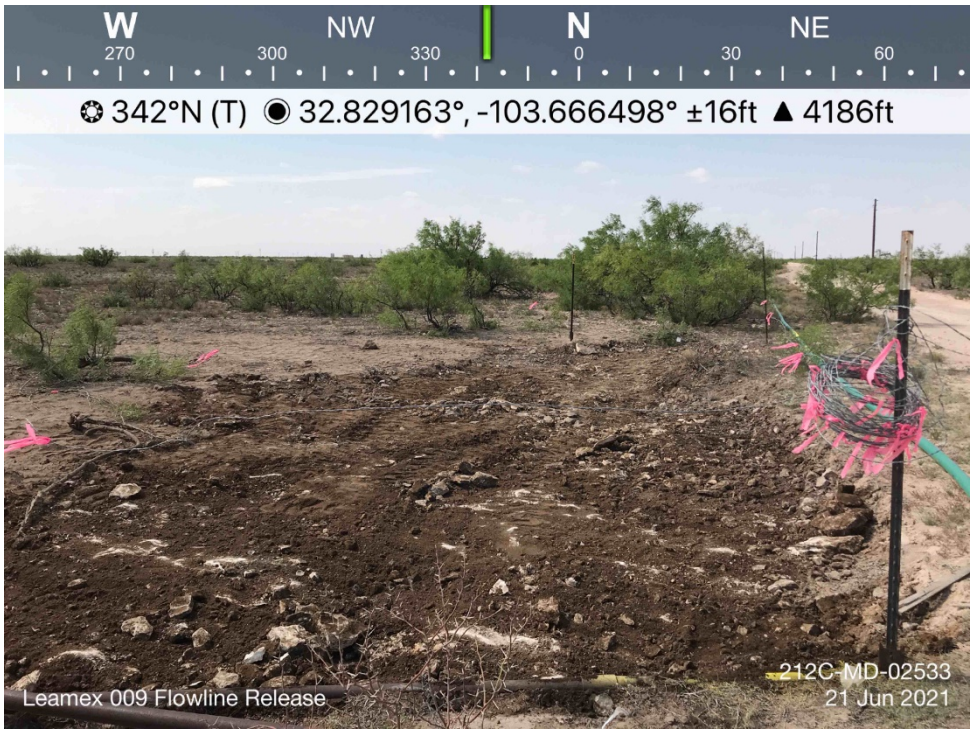



| | | | |
|---|---|---|---|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-02533 | DESCRIPTION | View west-northwest. Prior to initial response excavation, adjacent to release point. | 2 |
| | SITE NAME | ConocoPhillips Leamex 009 Flowline Release | 6/21/2021 |


| | | | |
|---|---|---|---|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-02533 | DESCRIPTION | View east-northeast. Flow lines extending over release area, prior to initial response. | 3 |
| | SITE NAME | ConocoPhillips Leamex 009 Flowline Release | 6/21/2021 |




| | | | |
|---|---|---|---|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-02533 | DESCRIPTION | View east. Initial response excavation between flowlines (approximately 6 inches deep). | 4 |
| | SITE NAME | ConocoPhillips Leamex 009 Flowline Release | 6/21/2021 |




| | | | |
|---|---|---|---|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-02533 | DESCRIPTION | View north-northwest. Initial response excavation NW section of release (approximately 1-foot deep). | 5 |
| | SITE NAME | ConocoPhillips Leamex 009 Flowline Release | 6/21/2021 |


| | | | |
|---|---|---|---|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-02533 | DESCRIPTION | View north. Initial response excavation. | 6 |
| | SITE NAME | ConocoPhillips Leamex 009 Flowline Release | 6/21/2021 |


| | | | |
|---|---|---|---|
| TETRA TECH, INC. PROJECT NO. 212C-MD-02533 | DESCRIPTION | View south-southeast. Applying Microblaze on overspray area. | 7 |
| | SITE NAME | ConocoPhillips Leamex 009 Flowline Release | 6/21/2021 |


| | | | |
|---|---|---|---|
| TETRA TECH, INC. PROJECT NO. 212C-MD-02533 | DESCRIPTION | View west southwest. Applying Microblaze on overspray area. | 8 |
| | SITE NAME | ConocoPhillips Leamex 009 Flowline Release | 6/21/2021 |

# APPENDIX F
# Waste Manifests

# TRANSPORTER'S MANIFEST

**MANIFEST #** 01

**SHIPPING FACILITY NAME & ADDRESS:**
**ConocoPhillips Company**
935 N. Eldridge Pkwy., Houston, TX 77079
Attn. Jenni Fortunato
Jenni.Fortunato@conocophillips.com
832.486.2477

**ACCOUNTING INFORMATION**
Leamex 9 Flowline Release – RMR Project
GL Account No.: 702000
WBS Element: WAO.000.7183.00.RM

**LOCATION OF MATERIAL:**
ConocoPhillips Company Leamex #9

**Leamex 9 Flowline Release (AoC 7183)**
**Unit Letter O, Section 16, Township 17 South, Range 32 East**
**Lea County, New Mexico**

**TRANSPORTER NAME AND ADDRESS:**

McNabb Partners
4008 N. Grimes
Hobbs, New Mexico 88240
575.397.0050

**DESCRIPTION OF WASTE:**
*Impacted Soil*

**TRUCK CAPACITY:** 18 yds **APPROXIMATE % FULL**

**APPROXIMATE VOLUME HAULED OFF** 16 yds

**FACILITY CONTACT:**
Date: 21 Jun 2021 Signature of Contact: (Agent for ConocoPhillips)

**NAME OF TRANSPORTER (Driver):**

Date: 6-21-21 Signature Driver:

M33

**DISPOSAL SITE:**

*R360*
*P.O. Box 388*
*4507 W Carlsbad Hwy*
*Hobbs, New Mexico 88241*

Date: 6/21/21 Representative Signature

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

| | | | |
|---|---|---|---|
| Customer: | CONOCOPHILLIPS | Ticket #: | 700-1218561 |
| Customer #: | CRI2190 | Bid #: | O6UJ9A000HH0 |
| Ordered by: | ANDREW GARCIA | Date: | 6/21/2021 |
| AFE #: | | Generator: | CONOCOPHILLIPS |
| PO #: | | Generator #: | |
| Manifest #: | 514996 | Well Ser. #: | 01435 |
| Manif. Date: | 6/21/2021 | Well Name: | LEAMEX |
| Hauler: | MCNABB PARTNERS | Well #: | 009 |
| Driver | GARY | Field: | |
| Truck # | M33 | Field #: | |
| Card # | | Rig: | NON-DRILLING |
| Job Ref # | 01 | County | LEA (NM) |

**Facility: CRI**

| Product / Service | Quantity Units |
|---|---|
| Contaminated Soil (RCRA Exempt) | 16.00 yards |

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste

_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)

**Driver/ Agent Signature** **R360 Representative Signature**

_____ _____

**Customer Approval**

## THIS IS NOT AN INVOICE!

Approved By: _____ Date: _____

R360 ENVIRONMENTAL SOLUTIONS

# NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST
(PLEASE PRINT)

Company Man Contact Information
Name Andrew Garcia
Phone No.

## GENERATOR

NO. 514996

Operator No.
Operators Name Conoco
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No. Leamex #009
County
API No.
Rig Name & No.
AFE/PO No. NON

**EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)**

| | | | |
|---|---|---|---|
| Oil Based Muds | | NON-INJECTABLE WATERS | INJECTABLE WATERS |
| Oil Based Cuttings | | Washout Water (Non-Injectable) | Washout Water (Injectable) |
| Water Based Muds | | Completion Fluid/Flow back (Non-Injectable) | Completion Fluid/Flow back (Injectable) |
| Water Based Cuttings | | Produced Water (Non-Injectable) | Produced Water (Injectable) |
| Produced Formation Solids | | Gathering Line Water/Waste (Non-Injectable) | Gathering Line Water/Waste (Injectable) |
| Tank Bottoms | | INTERNAL USE ONLY | OTHER EXEMPT WASTES (type and generation process of the waste) |
| E&P Contaminated Soil | ✓ | Truck Washout (exempt waste) | Dump |
| Gas Plant Waste | | | |

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

**NON-EXEMPT E&P Waste/Service Identification and Amount**
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, corrosivity and reactivity.

Non-Exempt Other *please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS L - LIQUID 16 Y - YARDS E - EACH

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

☑ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

☐ EMERGENCY NON-OILFEILD: Emergency non-hazradous, non-oilfeild waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a desciption of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS NAME DATE SIGNATURE

## TRANSPORTER

Transporter's Name McNabb Partners
Address
Phone No.

Driver's Name Gary
Print Name
Phone No.
Truck No. M33

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE DRIVER'S SIGNATURE 12/21 DELIVERY DATE DRIVER'S SIGNATURE

TRUCK TIME STAMP IN: OUT:

## DISPOSAL FACILITY

RECEIVING AREA Name/No. 50/51

Site Name/Permit No. Halfway Facility / NM1-006
Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220
Phone No. 575-393-1079

NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (circle one) YES NO
PASS THE PAINT FILTER TEST? (Circle One) YES NO

## TANK BOTTOMS

| | Feet | Inches |
|---|---|---|
| 1st Gauge | | |
| 2nd Gauge | | |
| Received | | |

| | | | |
|---|---|---|---|
| BS&W/BBLS Received | | BS&W (%) | |
| Free Water | | | |
| Total Received | | | |

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

M NAME (PRINT) 12/21 DATE Adm TITLE M SIGNATURE

C-138 White - R360 ORIGINAL Yellow - TRANSPORTER COPY Pink - GENERATOR SITE COPY Gold - RETURN TO GENERATOR Version 1

# TRANSPORTER'S MANIFEST

**MANIFEST #** 02

**SHIPPING FACILITY NAME & ADDRESS:**
**ConocoPhillips Company**
935 N. Eldridge Pkwy., Houston, TX 77079
Attn. Jenni Fortunato
Jenni.Fortunato@conocophillips.com
832.486.2477

**ACCOUNTING INFORMATION**
Leamex 9 Flowline Release – RMR Project
GL Account No.: 702000
WBS Element: WAO.000.7183.00.RM

**LOCATION OF MATERIAL:**
ConocoPhillips Company

**Leamex 9 Flowline Release (AoC 7183)**
**Unit Letter O, Section 16, Township 17 South, Range 32 East**
**Lea County, New Mexico**

**TRANSPORTER NAME AND ADDRESS:**

McNabb Partners
4008 N. Grimes
Hobbs, New Mexico 88240
575.397.0050

**DESCRIPTION OF WASTE:**
*Impacted Soil*

**TRUCK CAPACITY:** 18 **APPROXIMATE % FULL**

**APPROXIMATE VOLUME HAULED OFF** 14

**FACILITY CONTACT:**
Date: 21 Jun 21 Signature of Contact: (Agent for ConocoPhillips)

**NAME OF TRANSPORTER (Driver):**

Date: 6/21/21 Signature Driver: M33

**DISPOSAL SITE:**

*R360*
*P.O. Box 388*
*4507 W Carlsbad Hwy*
*Hobbs, New Mexico 88241*

Date: 6/21/21 Representative Signature SM

R360 ENVIRONMENTAL SOLUTIONS

Permian Basin

| | |
|---|---|
| Customer: | CONOCOPHILLIPS |
| Customer #: | CRI2190 |
| Ordered by: | ANDREW GARCIA |
| AFE #: | |
| PO #: | |
| Manifest #: | 02 |
| Manif. Date: | 6/21/2021 |
| Hauler: | MCNABB PARTNERS |
| Driver | GARY |
| Truck # | M33 |
| Card # | |
| Job Ref # | |

| | |
|---|---|
| Ticket #: | 700-1218591 |
| Bid #: | O6UJ9A000HH0 |
| Date: | 6/21/2021 |
| Generator: | CONOCOPHILLIPS |
| Generator #: | |
| Well Ser. #: | 01435 |
| Well Name: | LEAMEX |
| Well #: | 009 |
| Field: | |
| Field #: | |
| Rig: | NON-DRILLING |
| County | LEA (NM) |

**Facility: CRI**

| Product / Service | Quantity Units |
|---|---|
| Contaminated Soil (RCRA Exempt) | 14.00 yards |

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste

_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)

**Driver/ Agent Signature** **R360 Representative Signature**

_____ _____

**Customer Approval**

## THIS IS NOT AN INVOICE!

Approved By: _____ Date: _____

# TRANSPORTER'S MANIFEST

**MANIFEST #** 03

**SHIPPING FACILITY NAME & ADDRESS:**
**ConocoPhillips Company**
935 N. Eldridge Pkwy., Houston, TX 77079
Attn. Jenni Fortunato
Jenni.Fortunato@conocophillips.com
832.486.2477

**ACCOUNTING INFORMATION**
Leamex 9 Flowline Release – RMR Project
GL Account No.: 702000
WBS Element: WAO.000.7183.00.RM

**LOCATION OF MATERIAL:**
ConocoPhillips Company

**Leamex 9 Flowline Release (AoC 7183)**
**Unit Letter O, Section 16, Township 17 South, Range 32 East**
**Lea County, New Mexico**

**TRANSPORTER NAME AND ADDRESS:**

McNabb Partners
4008 N. Grimes
Hobbs, New Mexico 88240
575.397.0050

**DESCRIPTION OF WASTE:**
*Impacted Soil*

**TRUCK CAPACITY:** 18 **APPROXIMATE % FULL**

**APPROXIMATE VOLUME HAULED OFF** 10

**FACILITY CONTACT:**
Date: 21 Jun 21 Signature of Contact: (Agent for ConocoPhillips)

**NAME OF TRANSPORTER (Driver):**

Date: 6/21/21 Signature Driver:

**DISPOSAL SITE:**

*R360*
*P.O. Box 388*
*4507 W Carlsbad Hwy*
*Hobbs, New Mexico 88241*

Date: 6/21/21 Representative Signature

R360 ENVIRONMENTAL SOLUTIONS

**Permian Basin**

| | |
|---|---|
| Customer: | CONOCOPHILLIPS |
| Customer #: | CRI2190 |
| Ordered by: | ANDREW GARCIA |
| AFE #: | |
| PO #: | |
| Manifest #: | 03 |
| Manif. Date: | 6/21/2021 |
| Hauler: | MCNABB PARTNERS |
| Driver | GARY |
| Truck # | M33 |
| Card # | |
| Job Ref # | |

| | |
|---|---|
| Ticket #: | 700-1218625 |
| Bid #: | O6UJ9A000HH0 |
| Date: | 6/21/2021 |
| Generator: | CONOCOPHILLIPS |
| Generator #: | |
| Well Ser. #: | 01435 |
| Well Name: | LEAMEX |
| Well #: | 009 |
| Field: | |
| Field #: | |
| Rig: | NON-DRILLING |
| County | LEA (NM) |

**Facility: CRI**

| Product / Service | Quantity Units |
|---|---|
| Contaminated Soil (RCRA Exempt) | 10.00 yards |

**Generator Certification Statement of Waste Status**

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste

__ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

__ MSDS Information __ RCRA Hazardous Waste Analysis __ Process Knowledge __ Other (Provide description above)

**Driver/ Agent Signature** **R360 Representative Signature**

_____ _____

**Customer Approval**

## THIS IS NOT AN INVOICE!

Approved By: _____ Date: _____

# APPENDIX G
# NMSLO Seed Mixture Details

# NMSLO Seed Mix Coarse (CS)

**COARSE (CS) SITES SEED MIXTURE:**

| COMMON NAME | VARIETY | APPLICATION RATE (PLS/Acre) | DRILL BOX |
|---|---|---|---|
| **Grasses:** | | | |
| Sand bluestem | VNS, Southern | 2.0 | F |
| Sideoats grama | Vaughn, El Reno | 2.0 | F |
| Blue grama | Hachita, Lovington | 1.5 | D |
| Little bluestem | Cimmaron, Pastura | 1.5 | F |
| Sand dropseed | VNS, Southern | 1.0 | S |
| Plains bristlegrass | VNS, Southern | 0.75 | D |
| **Forbs:** | | | |
| Parry penstemon | VNS, Southern | 1.0 | D |
| Desert globemallow | VNS, Southern | 1.0 | D |
| White prairieclover | Kaneb, VNS | 0.5 | D |
| Sulfur buckwheat | VNS, Southern | 0.5 | D |
| **Shrubs:** | | | |
| Fourwing saltbush | VNS, Southern | 1.0 | D |
| Skunkbush sumac | VNS, Southern | 1.0 | D |
| Common winterfat | VNS, Southern | 1.0 | F |
| Fringed sagewort | VNS, Southern | 0.5 | F |
| | **Total PLS/acre** | **18.25** | |

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

- VNS, Southern – No Variety Stated, seed should be from a southern latitude collection of this species.
- Double above seed rates for broadcast or hydroseeding.
- If Parry is not available, substitute firecracker penstemon.
- If desert globemallow is not available, substitute scarlet globemallow.
- If one species is not available, provide a suggested substitute to the New Mexico Land Office for approval. Increasing all other species proportionately may be acceptable.

**District I**
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
**District II**
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
**District III**
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
**District IV**
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 71834

## CONDITIONS

| | |
|---|---|
| Operator:<br>CONOCOPHILLIPS COMPANY<br>600 W. Illinois Avenue<br>Midland, TX 79701 | OGRID:<br>217817 |
| | Action Number:<br>71834 |
| | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| chensley | Vertical delineation submitted was incomplete and did not meet the requirements of 19.15.29.11 NMAC. On closure report show (FS-2) delineation to 4.5 ft minimum or to closure criteria. | 2/2/2022 |
| chensley | Depth to water is not defined in the work plan that meets the standard of OCD. Please provide a bore log or defer to table 1 fifty feet or less criteria. | 2/2/2022 |