christian.llull@tetratech.com

| , | | SITE IN | FORMATIC | N | | | | | | | | | |
|----------------------------------|-------------------|--|---------------------------------|--------|---------------|-----------------------|--|--|--|--|--|--|--|
| | R | eport Type: Wor | k Plan NRI | W19318 | 56084 | | | | | | | | |
| General Site Info | | | | | | | | | | | | | |
| Site: | | James A #12 Flowline | Release | | | | | | | | | | |
| Company: | | ConocoPhillips | | | | | | | | | | | |
| Section, Townsl | hip and Range | | Sec. 2 | T 22S | R 30E | | | | | | | | |
| Lease Number: | | | Associated API No. 30-025-26761 | | | | | | | | | | |
| County: | | Eddy | 447040 | | | 400.045050 | | | | | | | |
| GPS: | | | .417242 | | | -103.847278 | | | | | | | |
| Surface Owner: Mineral Owner: | | State N/A | | | | | | | | | | | |
| Directions: | | Stevens St for 0.1 miles. Turn right onto N Main St for 0.2 miles. Turn left at the 3rd cross street onto US-180 E/US-62 E/E Greene St for 17.3 miles. Turn right onto NM-31 for 23.0 miles. Turn left onto Cimarron Rd for 4.5 miles. Slight right to stay on Cimarron Rd for 0.5 miles. Continue straight for 1.5 miles. Turn left for 0.4 miles. Turn right for 0.1 miles. Turn right for 0.1 miles. Site is to the east. | | | | | | | | | | | |
| Release Data: | | 140/40/0040 | | | | | | | | | | | |
| Date Released: Type Release: | | 10/16/2019 Produced Water | | | | | | | | | | | |
| Source of Contar | mination: | Flowline | | | | | | | | | | | |
| Fluid Released: | mnation. | 18 bbls | | | | | | | | | | | |
| Fluids Recovered | d: | 0 bbls | | | | | | | | | | | |
| Official Commu | nication: | | | | | | | | | | | | |
| Name: | Marvin Soriwei | | | | Christian M. | . Llull | | | | | | | |
| Company: | Conoco Phillips - | RMR | | | Tetra Tech | | | | | | | | |
| Address: | 935 N. Eldridge P | kwy. | | | 8911 North | Capital of Texas Hwy. | | | | | | | |
| | | | | | Building 2, S | • | | | | | | | |
| City: | Houston, Texas 7 | 7079 | | | Austin, Texa | | | | | | | | |
| Phone number: | (832) 486-2730 | | | | (512) 338-2 | | | | | | | | |
| | (222) .00 2.00 | | | | (= .= / 550 = | | | | | | | | |

| Site Characterization | | | | | | | | |
|--|--------------------|--|--|--|--|--|--|--|
| Depth to Groundwater: | 262' below surface | | | | | | | |
| Impact to groundwater or surface water: | No | | | | | | | |
| Extents within 300 feet of a watercourse: | No | | | | | | | |
| Extents within 200 feet of lakebed, sinkhole, or playa lake: | No | | | | | | | |
| Extents within 300 feet of an occupied structure: | No | | | | | | | |
| Extents within 500 horizontal feet of a private water well: | No | | | | | | | |
| Extents within 1000 feet of any water well or spring: | No | | | | | | | |
| Extents within incorporated municipal well field: | No | | | | | | | |
| Extents within 300 feet of a wetland: | No | | | | | | | |
| Extents overlying a subsurface mine: | No | | | | | | | |
| Karst Potential: | High | | | | | | | |
| Extents within a 100-year floodplain: | No | | | | | | | |
| Impact to areas not on a production site: | No | | | | | | | |

| Recommended Remedial Action Levels (RRALs) | | | | | | | | | | | |
|--|----------|---|-----------|-----------|--|--|--|--|--|--|--|
| Benzene Total BTEX TPH (GRO+DRO) TPH (GRO+DRO+MRO) Chlorides | | | | | | | | | | | |
| 10 mg/kg | 50 mg/kg | 1 | 100 mg/kg | 600 mg/kg | | | | | | | |
| | | | | | | | | | | | |

Marvin.Soriwei@conocophillips.com

Fax: Email:



April 30, 2021

District Supervisor
Oil Conservation Division, District 2
811 S. First St.
Artesia, New Mexico 88210

Re: Release Characterization and Remediation Work Plan ConocoPhillips James A #12 Flowline Release Unit Letter O/P, Section 2, Township 22 South, Range 30 East Eddy County, New Mexico 2RP-5696 Incident ID NRM1931856084

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to assess a release that occurred from a flowline associated with the James A #012 well (API No. 30-015-26761). The release footprint is located in Public Land Survey System (PLSS) Unit Letter O/P, Section 2, Township 22 South, Range 30 East, in Eddy County, New Mexico (Site). The approximate release point occurred at coordinates 32.417242°, -103.847278°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico Oil Conservation District (NMOCD) C-141 Initial Report, the release was discovered on October 16, 2019. The release occurred as the result of a flowline leak and reportedly encompassed an area of approximately 1,300 square feet (sf) of production pad. Approximately 18 barrels (bbls) of produced water were released, of which no volume of fluid was recovered. The New Mexico Oil Conservation District (NMOCD) received the initial C-141 on November 14, 2019 and subsequently assigned the release the Remediation Permit (RP) number 2RP-5696 and the Incident ID NRM1931856084. The initial C-141 form is included in Appendix A.

SITE CHARACTERIZATION

A site characterization was performed and no sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). The Site is in an area of high karst potential. Additionally, several streambodies were identified within ½ mile of the Site, but these have been identified as ephemeral drainage channels.

The Site is within a New Mexico oil and gas production area. According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within 800 meters (approximately $\frac{1}{2}$ mile) of the Site. The search radius was expanded and based on available data from one (1) water well

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ConocoPhillips

located within 6,437 meters (approximately 4 miles) of the Site, the average depth to groundwater is 262 ft below ground surface (bgs). The site characterization data is included in Appendix B.

REGULATORY FRAMEWORK

A risk-based evaluation was performed for the Site in accordance with the NMOCD 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, the RRALs for the Site are as follows:

| Constituent | Reclamation RRAL |
|-------------|------------------|
| Chloride | 600 mg/kg |
| TPH | 100 mg/kg |
| BTEX | 50 mg/kg |

2019 SITE ASSESSMENT ACTIVITIES & SAMPLING RESULTS

On November 5, 2019, ConocoPhillips personnel were onsite to advance four (4) soil borings (SP #1 through SP #4), to a terminal depth of 8 ft bgs each. Soil borings were installed in the release area footprint to assess and define the extent of impacted soils. A total of twenty (20) soil samples were collected from the four borings and submitted to Cardinal Laboratories in Hobbs, NM to be analyzed for chloride via EPA Method SM4500Cl-B. The Site assessment sampling locations are shown in Figure 3.

Analytical results for chloride exceeded the Site RRAL of 600 mg/kg in all sample intervals from SP #1 and SP #2; in the surface sample interval collected from SP #3; and in the surface sample and the 8 ft bgs sample in SP #4. Table 1 summarizes the laboratory analytical results from the 2019 site assessment.

WORK PLAN SUBMITTAL AND REJECTION

Following the 2019 assessment, a Work Plan (Remediation Plan) was prepared by ConocoPhillips and submitted to NMOCD on January 13, 2020. The Remediation Plan reported the results of the initial assessment and provided an outline for the proposed closure actions for the Site.

The Work Plan was rejected via email by Cristina Eads, NMOCD, on February 27, 2020. Ms. Eads stated the plan was denied based on the following:

- "• Benzene, BTEX, and TPH were not analyzed. At least one sample must be collected from the point of release and analyzed for Benzene, BTEX, and TPH. If concentrations of the aforementioned constituents are detected in the sample(s), delineation and confirmation samples will need to be collected and analyzed for all constituents listed in Table 1.
- The Remediation pages of the C-141 were not included with the submittal."

Copies of the Remediation Plan and denial email from the NMOCD are included in Appendix C.

ADDITIONAL SITE ASSESSMENT ACTIVITIES AND RESULTS

On behalf of ConocoPhillips, Tetra Tech personnel were onsite on July 21, 2020 to assess current site conditions and take photographs of the impacted area. During the site visit, visibly stained soils were observed in the immediate vicinity of the James A #12 well and within the reported release extent. Photographic documentation from the site visit is included in Appendix D.

On December 16, 2020 Tetra Tech personnel returned to the Site to advance six (6) soil borings to horizontally and vertically delineate the release extent. Two (2) borings (BH-1 and BH-2) were installed within the release extent using an air rotary drill rig to depths of 50 and 40 ft bgs, respectively. Four (4)

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hand auger borings (BH-3 through BH-6) were installed outside the perimeter of the release extent to depths of 6 ft bgs. All samples were field screened for salinity using an ExTech EC400 ExStik and for total hydrocarbons using a photoionization detector (PID) to measure volatile organics.

A total of forty (40) samples were collected from the six (6) borings and submitted to Pace Analytical (Pace) to be analyzed for TPH (DRO and ORO) by EPA Method 8015, TPH Low Fraction (GRO) by EPA Method 8015D, BTEX by EPA Method 8260B, and chlorides by EPA Method 300.0. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix E. Sample locations are shown in Figure 4.

Results from the December 2020 soil sampling event are summarized in Table 2. Analytical results associated with vertical boring location BH-1 exceeded the Site RRAL for chloride of 600 mg/kg in the sample depth intervals to 40 ft bgs, and BH-2 exceeded the Site RRAL for chloride of 600 mg/kg in the sample depth intervals 0-5 ft bgs and 19-30 ft bgs. Additionally, analytical results associated with boring location B-3 (located north of the release point) exceeded the Site RRAL for chloride at all intervals tested, 0-1 ft through 6-7 ft bgs. Analytical results associated with boring locations B-3 and B-4 (located north and east of the release point) exceeded the Site RRAL for TPH at intervals 2-3 ft bgs and 0-1 ft bgs, respectively. Boring locations B-5 and B-6 did not exceed the Site RRALs in any of the sampled depths.

ADDITIONAL DELINEATION ACTIVITIES & SAMPLING RESULTS

Based on the results of the December 2020 site assessment activities, delineation of the release was determined incomplete. Additional soil sampling north of BH-3 and east of B-4 was conducted in order to fully characterize the horizontal extent of the release extent.

On March 1, 2021, Tetra Tech personnel returned to the Site to further delineate and sample the release area. A total of two (2) borings (BH-7 and BH-8) were installed using a hand auger to depths of 3 ft bgs. A total of four (4) samples were collected from the two (2) boring locations (BH-7 and BH-8) to the north and east of the well pad, respectively.

Collected samples were placed into laboratory-provided sample containers, transferred under chain-of-custody, and analyzed within appropriate holding times by Pace. The soil samples were analyzed for TPH (DRO and ORO) by EPA Method 8015, TPH Low Fraction (GRO) by EPA Method 8015D, BTEX by EPA Method 8260B, and chlorides by EPA Method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E.

The results the March 2021 sampling event are summarized in Table 2. Analytical results associated with the collected samples were below the established RRALs for TPH, BTEX and chlorides. The Site release extent has been vertically and horizontally delineated.

REMEDIATION WORK PLAN

Based on the analytical results, ConocoPhillips proposes to remove the remaining impacted material as shown in Figure 5. Impacted soils in the areas around sample locations BH-1, BH-2, and BH-3 will be excavated using heavy equipment (backhoes, hoe rams, and track hoes) to a terminal depth of 4 ft below the surrounding surface or until a representative sample from the walls and bottom of the excavation is below the RRALs. Additionally, the areas around sample location BH-4 and the western edge of the release extent will be excavated to a depth of approximately 1 ft bgs. Any area containing pressurized lines will be hand-dug to a depth of 4 ft or the maximum extent practicable and heavy equipment will come no more than 3 ft from any pressurized lines.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation bottom and sidewall samples will be collected for verification of remedial activities, and analyzed for TPH, BTEX, and chlorides. Once results are received, NMOCD will be notified and the excavation will then be backfilled with clean material to surface grade. The estimated volume of material to be remediated is approximately 1,050 cubic yards.

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VARIANCE REQUEST

After characterization of this release, ConocoPhillips proposes to leave soils (with chloride concentrations greater than those specified in 19.15.29 NMAC Table I) located below four (4) ft bgs in place. The contamination is fully delineated, groundwater in this area is below 200 ft bgs, and the release footprint is located in areas immediately under or around pipelines where any further excavation past 4 ft bgs could cause a major facility deconstruction, and/or additional unwanted impact to the environment. Additionally, the Site is located in an area with abundant potash reserves, and so naturally occurring soluble mineral salts such as sylvite (KCI) could lead to natural variations of chloride in the soils of the region. Given the naturally occurring mineral salts in soil concentrations at depth, there is little evidence that the elevated chloride concentrations observed at depth are attributable to the 2RP-5696 release.

Thus, in accordance with 19.15.29.14(A) NMAC, ConocoPhillips requests a variance for the placement of a liner within the excavated area. A 20-mil reinforced poly liner will be installed and properly seated throughout the base of the excavation (at 4 ft below surrounding grade). The liner will provide an engineering control that will serve as a barrier and inhibit the downward migration of residual constituents. The liner will be domed and overlap the release extent as to drain away precipitation to the outskirts.

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 6. Twenty-two (22) confirmation floor samples and twenty-eight (28) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 12,290 sf.

These confirmation sidewall and floor samples will be representative of no more than approximately 500 sf of excavated area. Confirmation samples will be sent to Pace for analysis of TPH (Method 8015 modified), BTEX (Method 8260B), and chloride (USEPA Method 300.0). Once results are received, NMOCD will be notified and the excavation will then be backfilled with clean material to surface grade. The alternative confirmation sampling plan is shown in Figure 6.

SITE RECLAMATION AND RESTORATION PLAN

The off-pad backfilled areas will be seeded in the first favorable growing season following completion of remedial activities to aid in revegetation. Based on the soils at the site, the New Mexico State Land Office (NMSLO) Sandy Loam (SL) 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 F.

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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 or Greg at (432) 682-4559.

Sincerely,

Tetra Tech, Inc.

Christian M. Llull, P.G.

Project Manager

CC:

Mr. Marvin Soriwei, RMR - ConocoPhillips

Mr. Charles Beauvais, GPBU - ConocoPhillips

Greg W. Pope, P.G. Program Manager

ConocoPhillips

LIST OF ATTACHMENTS

Figures:

Figure 1 – Site Map

Figure 2 – Topographic Map

Figure 3 – Approximate Release Extent and Initial Assessment

Figure 4 – Additional Site Assessment

Figure 5 – Proposed Remediation Map

Figure 6 – Alternative Confirmation Sampling Plan

Tables:

Table 1 – Summary of Analytical Results – Initial Soil Assessment

Table 2 – Summary of Analytical Results – Additional Soil Assessment

Appendices:

Appendix A – C-141 Forms

Appendix B – Site Characterization Data

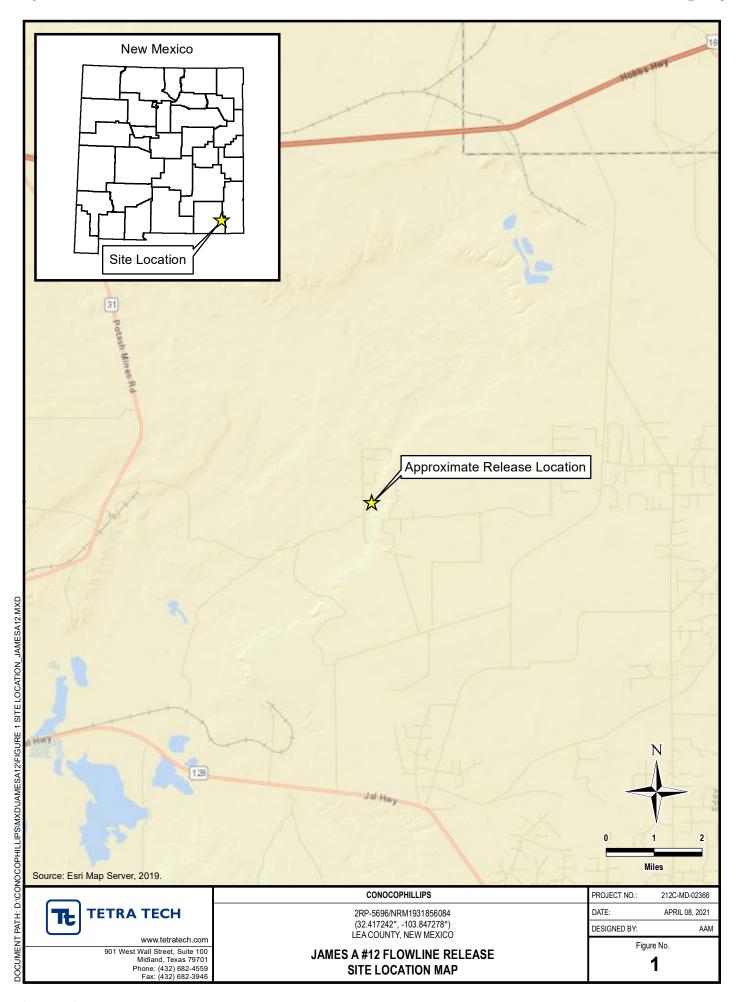
Appendix C – Remediation Plan & NMOCD Denial Email (2020)

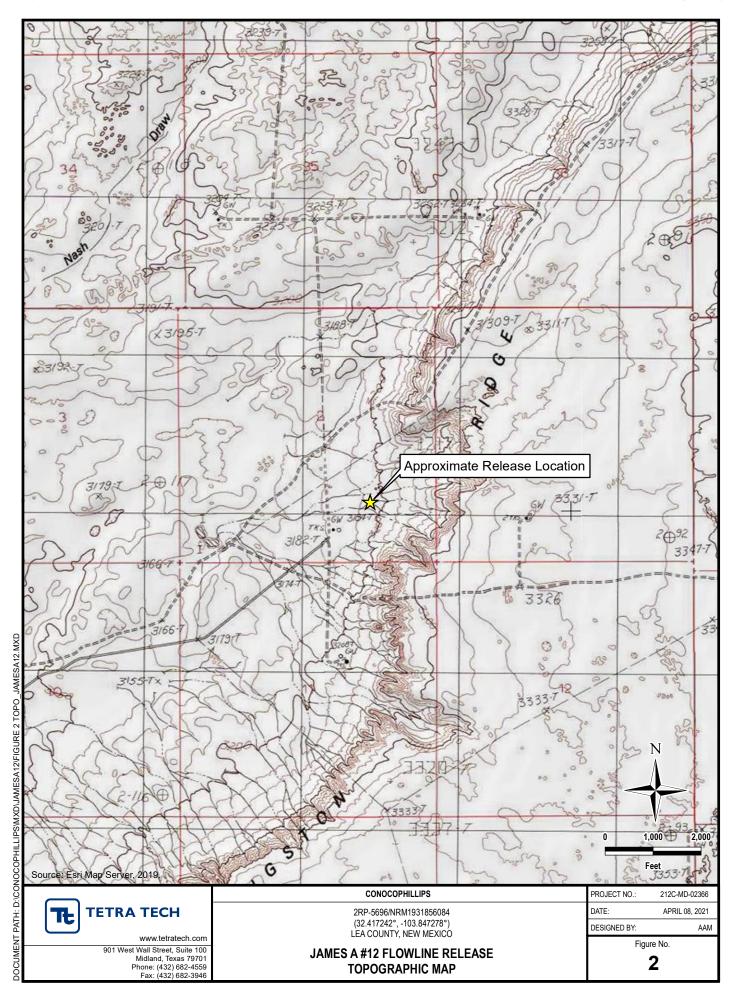
Appendix D – Photographic Documentation

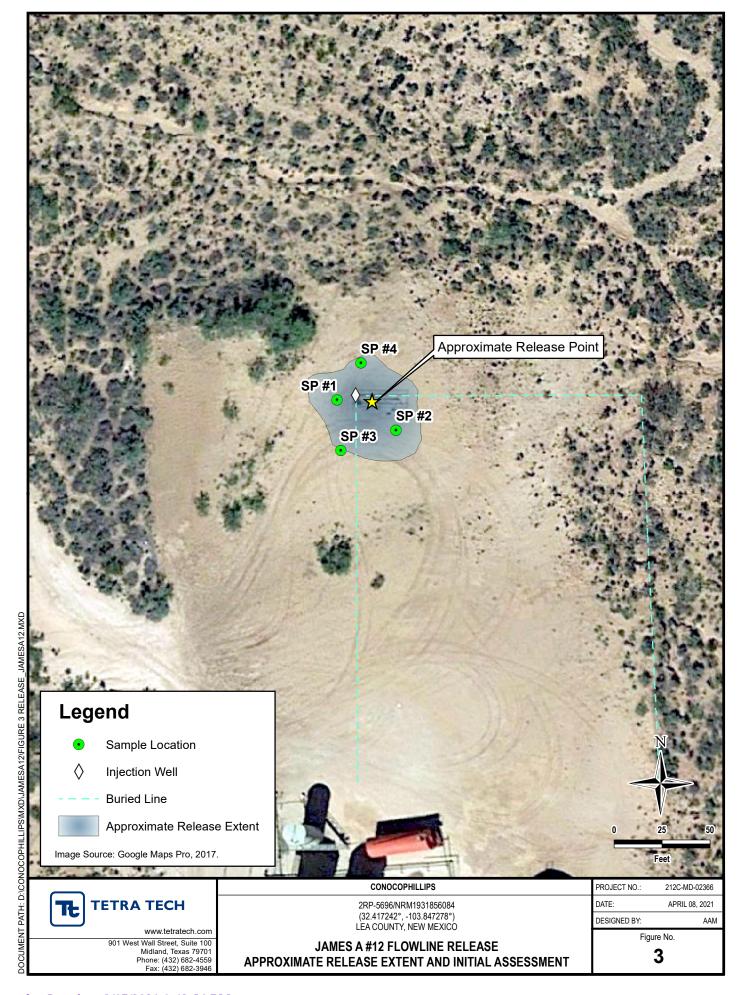
Appendix E - Laboratory Analytical Data

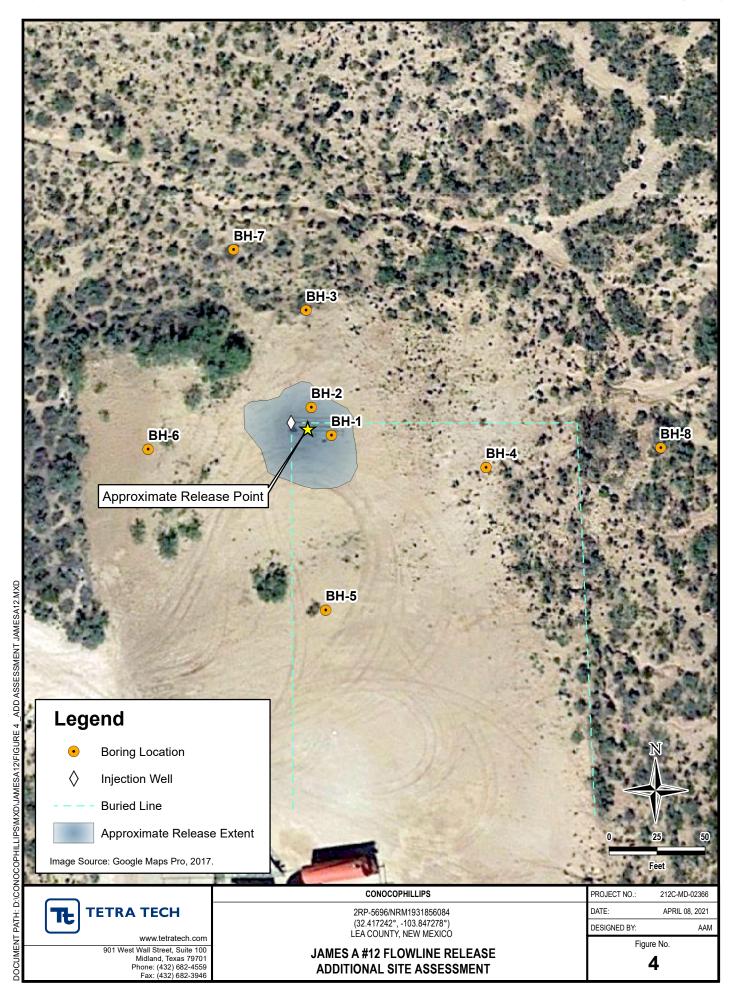
Appendix E – NMSLO Seed Mixture

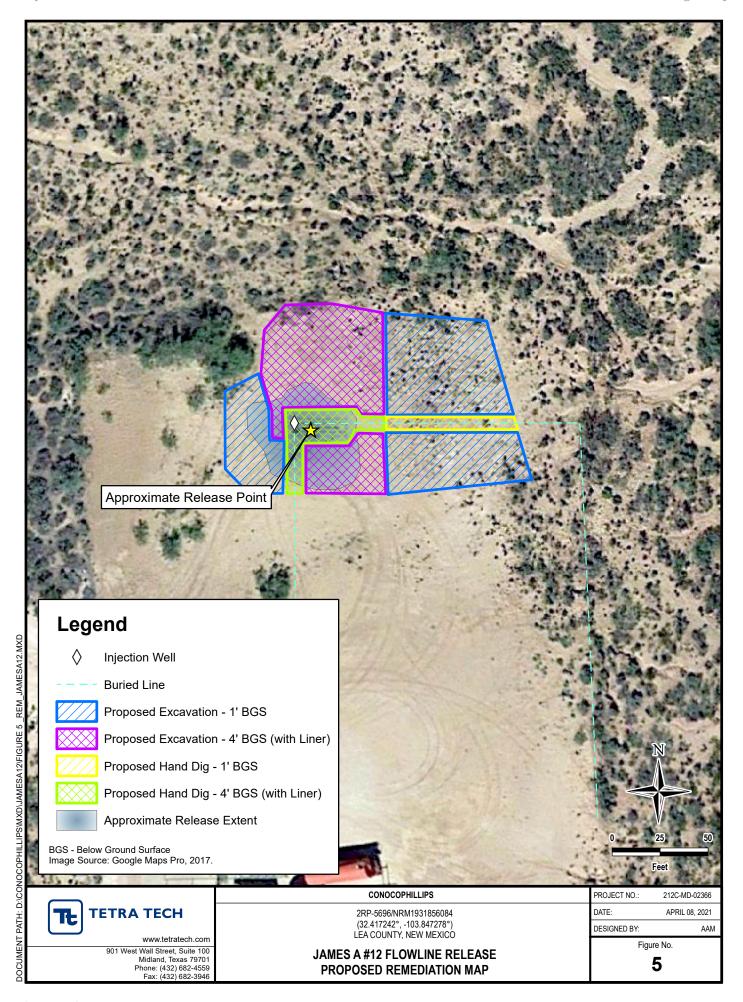
FIGURES

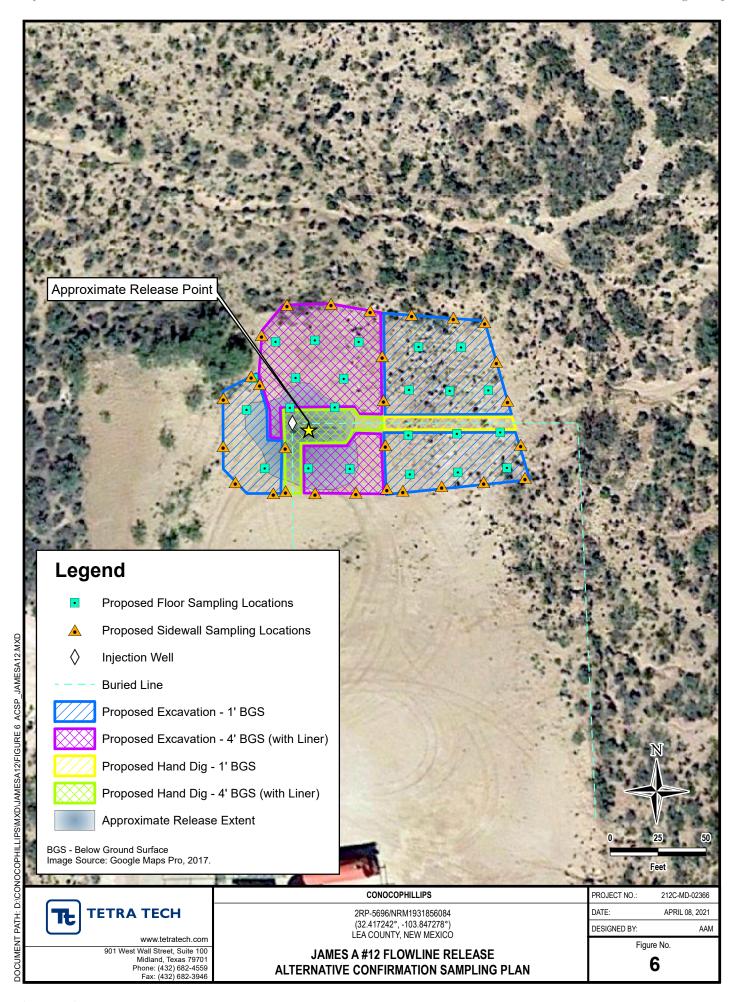












TABLES

TABLE 1

SUMMARY OF ANALYTICAL RESULTS INITIAL SOIL ASSESSMENT - NRM1931856084 CONOCOPHILLIPS JAMES A #12 FLOWLINE RELEASE EDDY COUNTY, NM

| Sample ID | Sample Date | Sample Depth Interval | Chloride ¹ | | | | | |
|-----------|-------------|--------------------------|-----------------------|---|--|--|--|--|
| | | ft. bgs | mg/kg | Q | | | | |
| SP #1 | 11/5/2019 | 0.5 | 31600 | | | | | |
| SP #1 | 11/5/2019 | 2 | 1020 | | | | | |
| SP #1 | 11/5/2019 | 4 | 640 | | | | | |
| SP #1 | 11/5/2019 | 6 | 1840 | | | | | |
| SP #1 | 11/5/2019 | 8 | 640 | | | | | |
| SP #2 | 11/5/2019 | 0.5 | 15000 | | | | | |
| SP #2 | 11/5/2019 | 2 | 1150 | | | | | |
| SP #2 | 11/5/2019 | 4 | 1520 | | | | | |
| SP #2 | 11/5/2019 | 6 | 1600 | | | | | |
| SP #2 | 11/5/2019 | 8 | 1100 | | | | | |
| SP #3 | 11/5/2019 | SURFACE | 2840 | | | | | |
| SP #3 | 11/5/2019 | 2 | 32 | | | | | |
| SP #3 | 11/5/2019 | 4 | 48 | | | | | |
| SP #3 | 11/5/2019 | 6 | 16 | | | | | |
| SP #3 | 11/5/2019 | 8 | 16 | | | | | |
| SP #4 | 11/5/2019 | SURFACE | 2320 | | | | | |
| SP #4 | 11/5/2019 | 2 | 240 | | | | | |
| SP #4 | 11/5/2019 | 4 | 64 | | | | | |
| SP #4 | 11/5/2019 | 6 | 256 | | | | | |
| SP #4 | 11/5/2019 | 8 | 624 | | | | | |

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

Bold and italicized values indicate exceedance of proposed RRALs

1 EPA Method SM4500Cl-B

Received by OCD: 4/30/2021 12:20:27 PM

TABLE 2 SUMMARY OF ANALYTICAL RESULTS ADDITIONAL SOIL ASSESSMENT - NRM1931856084 CONOCOPHILLIPS

JAMES A #12 FLOWLINE RELEASE EDDY COUNTY, NM

| | | | Field Career | ina Danulta | | | | | | | BTEX ² | | | | | TPH ³ | | | | | | | |
|-----------|-------------|--------------------------|--------------|--------------|-----------------------|----------|-----------|--------|-----------|---|-------------------|---|----------------------|----------|------------|----------------------------------|----|-----------------------------------|---|-----------------------------------|-----------|---------------|--|
| Sample ID | Sample Date | Sample Depth Interval | Field Screen | ning Kesuits | Chloride ¹ | | Benzene | | Toluene | | Ethylbenzene Tota | | Total Xylenes | | Total BTEX | GRO ⁴ DRO | | | | ORO | Total TPH | | |
| Sample 10 | Sample Date | | Chloride | PID | | | Delizelle | | Totalette | | Luiyibelizeli | - | Total xylenes | | TOTAL | C ₃ - C ₁₀ | | C ₁₀ - C ₂₈ | | C ₂₈ - C ₄₀ | | (GRO+DRO+ORO) | |
| | | ft. bgs | рр | m | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg | |
| | | 0-1 | - | - | 3030 | | < 0.00147 | | < 0.00736 | | < 0.00368 | | 0.00139 | J | 0.00139 | < 3.68 | | 9.24 | | 24.7 | | 33.9 | |
| | | 2-3 | - | - | 725 | | 0.000989 | J | 0.00240 | J | < 0.00354 | | 0.00184 | J | 0.00523 | < 3.54 | | < 4.33 | | 1.10 | J | 1.10 | |
| | | 4-5 | - | - | 861 | | < 0.00187 | | < 0.00935 | | < 0.00468 | | < 0.0122 | | - | < 4.68 | | < 4.30 | | < 4.30 | | - | |
| | | 6-7 | - | - | 1100 | | < 0.00148 | | < 0.00739 | | < 0.00370 | | 0.00156 | J | 0.00156 | < 3.70 | | < 4.29 | | < 4.29 | | - | |
| | | 9-10 | - | - | 1760 | | < 0.00202 | | < 0.0101 | | < 0.00506 | | < 0.0131 | | - | < 5.06 | | < 4.27 | | < 4.27 | | - | |
| | | 14-15 | - | - | 2580 | | < 0.00129 | | < 0.00647 | | < 0.00323 | | < 0.00841 | | - | < 3.23 | | < 4.33 | | < 4.33 | | - | |
| BH-1 | 12/16/2020 | 19-20 | 981 | - | 3590 | | < 0.00176 | | < 0.00880 | | < 0.00441 | | < 0.0115 | | - | < 4.41 | | < 4.33 | | < 4.33 | | - | |
| | | 24-25 | - | - | 4010 | | < 0.00186 | | < 0.00928 | | < 0.00464 | | < 0.0121 | | - | < 4.64 | | < 4.50 | | < 4.50 | | - | |
| | | 29-30 | 1200 | - | 3220 | | < 0.00175 | | 0.00227 | J | < 0.00437 | | < 0.0114 | | 0.00227 | < 4.37 | | < 4.56 | | 0.881 | J | 0.881 | |
| | | 34-35 | - | - | 1900 | | < 0.00155 | | < 0.00774 | | < 0.00387 | | < 0.0101 | | - | < 3.87 | | < 4.67 | | < 4.67 | | - | |
| | | 39-40 | 890 | - | 976 | | < 0.00209 | | < 0.0104 | | < 0.00521 | | < 0.0135 | | - | < 5.21 | | < 4.71 | | < 4.71 | | - | |
| | | 44-45 | - | - | 248 | | < 0.00177 | | < 0.00886 | | < 0.00443 | | < 0.0115 | | - | < 4.43 | | < 4.62 | | < 4.62 | | - | |
| | | 49-50 | 201 | 0.8 | 200 | | < 0.00156 | | < 0.00779 | | < 0.00390 | | < 0.0101 | | - | < 3.90 | | < 4.70 | | < 4.70 | | | |
| | | 0-1 | - | - | 3240 | | < 0.00137 | | < 0.00687 | | < 0.00344 | | < 0.00893 | | - | < 3.44 | | 4.06 | J | 17.3 | | 21.4 | |
| | | 2-3 | - | - | 843 | | < 0.00124 | | < 0.00618 | | < 0.00310 | | < 0.00804 | | - | < 3.09 | | < 4.16 | | < 4.16 | | - | |
| | | 4-5 | - | - | 622 | | 0.000949 | J | 0.00288 | J | < 0.00351 | | 0.00228 | J | 0.00611 | < 3.51 | | < 4.22 | | 0.416 | J | 0.416 | |
| | | 6-7 | - | - | 315 | | < 0.00125 | | 0.00815 | J | < 0.00313 | | 0.00125 | J | 0.00940 | < 3.13 | | < 4.29 | | < 4.29 | | - | |
| | 12/16/2020 | 9-10 | - | - | 512 | | < 0.00158 | | < 0.00792 | | < 0.00397 | | < 0.0103 | | - | < 3.97 | | < 4.19 | | < 4.19 | | - | |
| BH-2 | | 14-15 | - | - | 518 | | < 0.00130 | | < 0.00648 | | < 0.00324 | | < 0.00842 | | - | < 3.24 | | < 4.21 | | 0.539 | J | 0.539 | |
| | | 19-20 | - | 720 | 798 | | < 0.00128 | | < 0.00642 | | < 0.00322 | | < 0.00835 | | - | < 3.20 | | < 4.29 | | 0.356 | J | 0.356 | |
| | | 24-25 | - | - | 4090 | | < 0.00143 | | < 0.00714 | | < 0.00357 | | < 0.00928 | | - | < 3.57 | | < 4.62 | | 0.690 | J | 0.690 | |
| | | 29-30 | - | 1100 | 1470 | | < 0.00204 | | 0.00332 | J | 0.00199 | J | 0.00326 | J | 0.00857 | < 5.10 | | < 4.44 | | 0.775 | J | 0.775 | |
| | | 34-35 | - | - | 267 | | < 0.00134 | | < 0.00669 | | < 0.00335 | | < 0.00871 | | - | < 3.35 | | < 4.56 | | 0.388 | J | 0.388 | |
| | | 39-40 | 0.4 | 140 | 191 | | < 0.00183 | | < 0.00916 | | < 0.00458 | | < 0.0119 | | - | < 4.58 | | < 4.76 | | < 4.76 | | - | |
| | | 0-1 | 0.1 | 201 | 1640 | | < 0.00114 | | < 0.00571 | | < 0.00286 | | < 0.00742 | | - | < 2.86 | | < 4.10 | | 5.58 | | 5.58 | |
| | 42/45/2020 | 2-3 | 0.3 | 105 | 1160 | | < 0.00115 | | < 0.00573 | | < 0.00286 | | < 0.00744 | | - | < 2.86 | | 92.9 | | 224 | | 317 | |
| BH-3 | 12/16/2020 | 4-5 | 0.8 | 101 | 2810 | | < 0.00188 | | < 0.00941 | | < 0.00471 | | < 0.0122 | | - | < 4.71 | | < 4.38 | | 3.49 | J | 3.49 | |
| | | 6-7 | - | 98.7 | 3750 | | < 0.00144 | | < 0.00719 | | < 0.00360 | | < 0.00936 | | - | < 3.60 | | < 4.37 | | 1.29 | J | 1.29 | |
| | | 0-1 | 0.8 | 216 | 477 | | < 0.00111 | | 0.00947 | | 0.00346 | | 0.0152 | | 0.0281 | < 2.79 | | 155 | | 530 | | 685 | |
| | | 2-3 | 0.6 | 240 | 148 | | < 0.00130 | | 0.00494 | J | < 0.00325 | | 0.00290 | J | 0.00784 | < 3.26 | | 22.4 | П | 66.9 | | 89.3 | |
| BH-4 | 12/16/2020 | 4-5 | 0.5 | 180 | 343 | | < 0.00157 | | < 0.00785 | | < 0.00393 | | < 0.0102 | | - | < 3.93 | | 9.25 | | 31.6 | | 40.9 | |
| | | 6-7 | 0.9 | 99.5 | 537 | | < 0.00110 | | < 0.00550 | | < 0.00275 | | < 0.00715 | | - | < 2.75 | | 7.40 | | 28.2 | | 35.6 | |
| | | 0-1 | 0.9 | 198 | 364 | | 0.0236 | | 0.151 | | 0.0236 | | 0.158 | | 0.356 | < 19.2 | | 2.25 | 1 | 9.78 | | 12.0 | |
| | | 2-3 | 0.6 | 161 | 33.2 | \vdash | < 0.00106 | | < 0.00528 | H | < 0.00264 | | < 0.00687 | \vdash | - | < 2.64 | + | < 4.11 | H | 1.88 | - | 1.88 | |
| BH-5 | 12/16/2020 | 4-5 | 0.5 | 102 | 29.8 | Н | < 0.00136 | | < 0.00680 | Н | < 0.00340 | Н | < 0.00884 | H | - | < 3.40 | | < 4.37 | H | 2.22 | 1 | 2.22 | |
| | | 6-7 | 0.3 | 88.1 | 10.6 | J | < 0.00135 | | < 0.00627 | Н | < 0.00314 | Н | < 0.00815 | H | - | < 3.14 | | < 4.49 | H | 1.36 | 1 | 1.36 | |
| | 1 | 0-1 | 0.6 | 126 | 291 | H | 0.000876 | _ | < 0.00923 | H | < 0.00462 | H | | H | 0.00453 | < 4.62 | + | 3.36 | | 25.1 | + | 28.5 | |
| | | 0-1 2-3 | 0.6 | 126 | 291 | | < 0.00103 | J | < 0.00923 | H | < 0.00462 | H | 0.00365 < 0.00671 | J | 0.00453 | < 4.62 < 2.58 | +- | 3.36 < 4.06 | J | 25.1 8.49 | \vdash | 28.5 8.49 | |
| BH-6 | 12/16/2020 | 2-3 4-5 | 0.5 | 105 84.2 | 32.7 | | < 0.00103 | | < 0.00516 | H | < 0.00258 | H | < 0.006/1 | H | - | < 3.67 | +- | < 4.06 < 4.16 | | 4.41 | \vdash | 8.49 4.41 | |
| | | 6-7 | 0.2 | 64.3 | 42.4 | Н | < 0.00147 | | < 0.00733 | Н | < 0.00367 | Н | < 0.00953 | H | - | 1.12 | BJ | < 4.15 | H | 2.29 | Н | 3.41 | |
| | 1 | | | | l | \vdash | | _ | | H | | H | | Н | | | ÷ | | Н | | J | | |
| BH-7 | 3/1/2021 | 0-1 | - | - | 121 | | < 0.00108 | | < 0.00542 | Ш | < 0.00271 | Щ | < 0.00704 | Щ | - | 0.0328 | BJ | 14.0 | | 68.0 | | 82.0 | |
| | <u> </u> | 2-3 | <u> </u> | - | 10.8 | J | < 0.00110 | | < 0.00549 | Щ | < 0.00275 | Ш | < 0.00714 | Ш | - | 0.122 | В | 6.04 | Ш | 23.5 | Ш | 29.7 | |
| BH-8 | 3/1/2021 | 0-1 | - | - | 30.6 | | < 0.00108 | | < 0.00540 | | < 0.00270 | | < 0.00702 | | - | 0.0403 | ВJ | 4.42 | | 22.7 | | 27.2 | |
| DH-0 | 3/1/2021 | 2-3 | _ | - | 12.6 | | < 0.00105 | \neg | < 0.00524 | | < 0.00262 | | < 0.00682 | | - | 0.0535 | ВЈ | 6.76 | | 22.2 | | 29.0 | |

NOTES:

bgs Below ground surface

ppm Parts per million

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

ORO Oil range organics

Bold and italicized values indicate exceedance of proposed RRALs

Shaded rows indicate intervals proposed for excavation.

1 EPA Method 300.0

EPA Method 8260B
 EPA Method 8015

4 EPA Method 8015D/GRO

QUALIFIERS:

B The same analyte is found in the associated blank.

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

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 | NRM1931856084 |
|----------------|----------------|
| District RP | 2RP-5696 |
| Facility ID | fMAP1829545945 |
| Application ID | pRM1931856493 |

OMSEV-191016-C-1410

Release Notification

Responsible Party

| Responsible | Party Con | ocoPhillips C | ompany | OGRII | 217817 | | | | | | | |
|--------------|-----------------|-------------------------|--|------------------------------------|---|--|--|--|--|--|--|--|
| | | o Fejervary | | Contac | t Telephone 432/210-7037 | | | | | | | |
| | | ary@cop.com | | Incider | Incident # (assigned by OCD) | | | | | | | |
| Contact mail | | | | 5735 | 5 SW 7000 Andrews, TX 79714 | | | | | | | |
| | | | Location | ı of Release | Source | | | | | | | |
| Latitude 32 | .4173279 | | (NAD 83 in d | Longitud decimal degrees to 5 d | de103.8466568 decimal places) | | | | | | | |
| Site Name | AMES A | 12 | | Site Ty | ^{pe} Injection well | | | | | | | |
| Date Release | | | | | f applicable) 30-015-26761 | | | | | | | |
| Unit Letter | Section | Township | Range | | County | | | | | | | |
| Р | 02 | 228 | 30E | Eddy | | | | | | | | |
| | Materia | l(s) Released (Select a | | d Volume of | cific justification for the volumes provided below) | | | | | | | |
| Crude Oi | | Volume Release | | | Volume Recovered (bbls) | | | | | | | |
| Produced | Water | Volume Release | ed (bbls) 18 | | Volume Recovered (bbls) 0 | | | | | | | |
| | | | tion of total disso water >10,000 n | olved solids (TDS | S) Yes No | | | | | | | |
| Condensa | ate | Volume Release | | 9 | Volume Recovered (bbls) | | | | | | | |
| ☐ Natural C | J as | Volume Release | ed (Mcf) | | Volume Recovered (Mcf) | | | | | | | |
| Other (de | escribe) | Volume/Weight | Released (provi | de units) | Volume/Weight Recovered (provide units) | | | | | | | |
| Cause of Rel | ease flow l | ine leak. on p | ad | | | | | | | | | |
| - | | , | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | |

Page 2

| State of New Mexico |
|---------------------------|
| Oil Conservation Division |

| Incident ID | NRM1931856084 |
|----------------|----------------|
| District RP | 2RP-5696 |
| Facility ID | fMAP1829545945 |
| Application ID | pRM1931856493 |

| Was this a major release as defined by | If YES, for what reason(s) does the resp | onsible party consider this a major release? | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|
| 19.15.29.7(A) NMAC? | | | | | | | | | |
| Yes No | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| If YES, was immediate no | otice given to the OCD? By whom? To v | whom? When and by what means (phone, email, etc)? | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | Initial F | Response | | | | | | | |
| The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury | | | | | | | | | |
| ☐ The source of the rele | ase has been stopped. | | | | | | | | |
| | s been secured to protect human health an | d the environment. | | | | | | | |
| | | dikes, absorbent pads, or other containment devices. | | | | | | | |
| 1 | coverable materials have been removed a | | | | | | | | |
| If all the actions described | l above have <u>not</u> been undertaken, explain | why: | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Per 19.15.29.8 B. (4) NM | AC the responsible party may commence | remediation immediately after discovery of a release. If remediation | | | | | | | |
| has begun, please attach a | a narrative of actions to date. If remedial | efforts have been successfully completed or if the release occurred | | | | | | | |
| | | please attach all information needed for closure evaluation. | | | | | | | |
| regulations all operators are r | required to report and/or file certain release not | best of my knowledge and understand that pursuant to OCD rules and ifications and perform corrective actions for releases which may endanger | | | | | | | |
| public health or the environm | ent. The acceptance of a C-141 report by the | OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In | | | | | | | |
| addition, OCD acceptance of and/or regulations. | a C-141 report does not relieve the operator of | responsibility for compliance with any other federal, state, or local laws | | | | | | | |
| Gua | stavo Fejervary | | | | | | | | |
| Printed Name: Gus | 4f | Title: Environmental Coordinator | | | | | | | |
| Signature: | // | Date:10/16/19 | | | | | | | |
| email: g.fejervary@c | op.com | Telephone: 432/210-7037 | | | | | | | |
| | | | | | | | | | |
| OCD Only | | | | | | | | | |
| Received by: Ramona M | farcus | Date: 11/14/2019 | | | | | | | |
| | | | | | | | | | |

2RP-5696

| | | | | | | | | | Total Estimated Volume of Spilled Liquid other than Oil (bbl.) | | | | | | | | | | | |
|--------------------------------|------------------------------------|------------------------|---|------------------------------|---|--|---|--|--|-------------|-------------|-------------|---------------------------|-------------|-------------|-------------|-----------------|-------------|-------------|-----------------------|
| | | | | | | | | نو | Total Estimated Volume of Spilled Oil (bbl.) | | | | | | | | | | | |
| | | | | | | | ation factor | if No, use factors abov | Percentage of Oil if Spilled Fluid is a Mixture | | | | | | | | | | | |
| | | | | | | | 6 soil spilled-fluid satur | Yes, On Pad - 8%; Off Pad - 13.57% soil spilled-fluid saturation factor; if No, use factors above. | Total Estimated Volume of Spill (bbl.) | 11.681 | 3.140 | 2.944 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 17.765 |
| L48 Spill Volume Estimate Form | | | | | | Spill Calculation - Subsurface Spill - Rectangle | On Pad - 10.5%; Off Pad - 15.12% soil spilled-fluid saturation factor | | Estimated volume of each area (bbl.) | 111.250 | 29.904 | 28.035 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | Total Volume Release: |
| L48 Spill Volu | | | | | tion well | Spill Calculation - S | | | Soil Spilled-Fluid Saturation | 10.50% | 10.50% | 10.50% | | | | | | | | |
| | James A 12 | Asset Area: SENM Hobbs | Release Discovery Date & Time: 10/16/19 11:30AM | Release Type: Produced Water | Provide any known details about the event. Flow line leak on injection well | | | | Depth (in.) | 12.00 | 00'9 | 6.00 | | | | | | | | |
| | Facility Name & Number, James A 12 | Asset Area: | | Release Type: | alls about the event. | | Was the release on pad or off-pad? | Has it rained at least a half inch in the last 24 hours? | Width (ft.) | 25.0 | 16.0 | 15.0 | | | | | | | | |
| | Facili | | Release Disc | | de any known deta | | Was the release | east a half inch in | Length (ft.) | 25.0 | 21.0 | 21.0 | 100 VS3 / JSS / JSS / SSS | | | | 100 000 000 000 | | | |
| | | | | | Provic | | | Has it rained at | Convert irregular shape into a series of rectangles | Rectangle A | Rectangle B | Rectangle C | Rectangle D | Rectangle E | Rectangle F | Rectangle G | Rectangle H | Rectangle I | Rectangle J | |

Received by OCD: 4/30/2021 12:20:27 PM Form C-141 State of New Mexico Page 3 Oil Conservation Division

| | Page 22 of 175 |
|----------------|----------------|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

Site Assessment/Characterization

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

| What is the shallowest depth to groundwater beneath the area affected by the release? | (ft bgs) | | | | | | | | |
|--|------------|--|--|--|--|--|--|--|--|
| Did this release impact groundwater or surface water? | | | | | | | | | |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | | | | | | | | | |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | | | | | | | | | |
| 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? | | | | | | | | | |
| 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? | | | | | | | | | |
| 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 well 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 | ls. | | | | | | | | |

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

Received by OCD: 4/30/2021 12:20:27 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

| | Page 23 of 175 |
|----------------|----------------|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

| I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a the addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations. | tifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In |
|--|--|
| Printed Name: | Title: |
| Signature: | Date: |
| email: | Telephone: |
| | |
| OCD Only | |
| Received by: | Date: |
| | |

Received by OCD: 4/30/2021 12:20:27 PM Form C-141 State of New Mexico Page 5 Oil Conservation Division

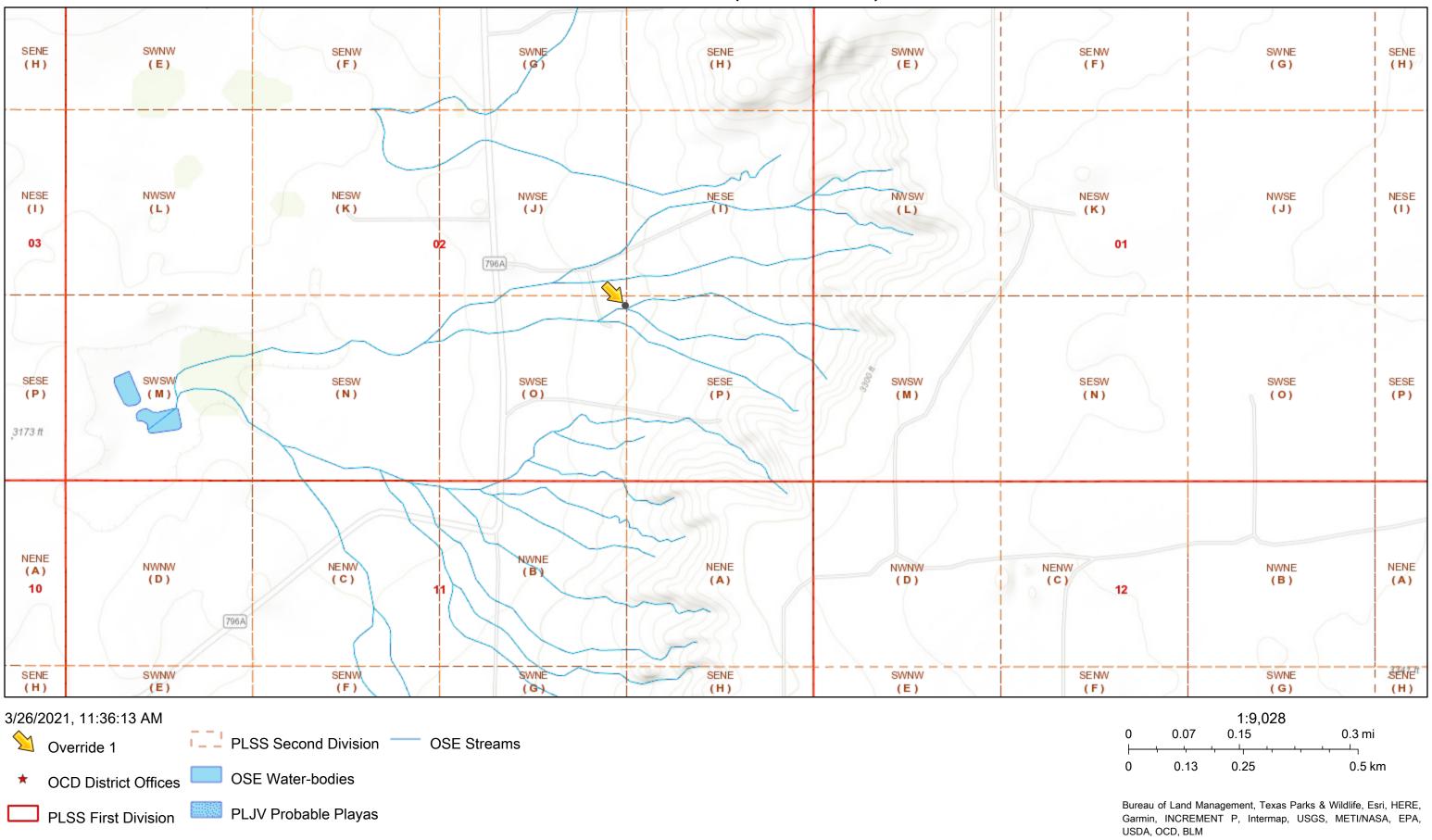
| | Page 24 of 1 | <i>75</i> |
|-------------|--------------|-----------|
| Incident ID | | |
| District RP | | |
| Facility ID | | |
| A1' 4' ID | | |

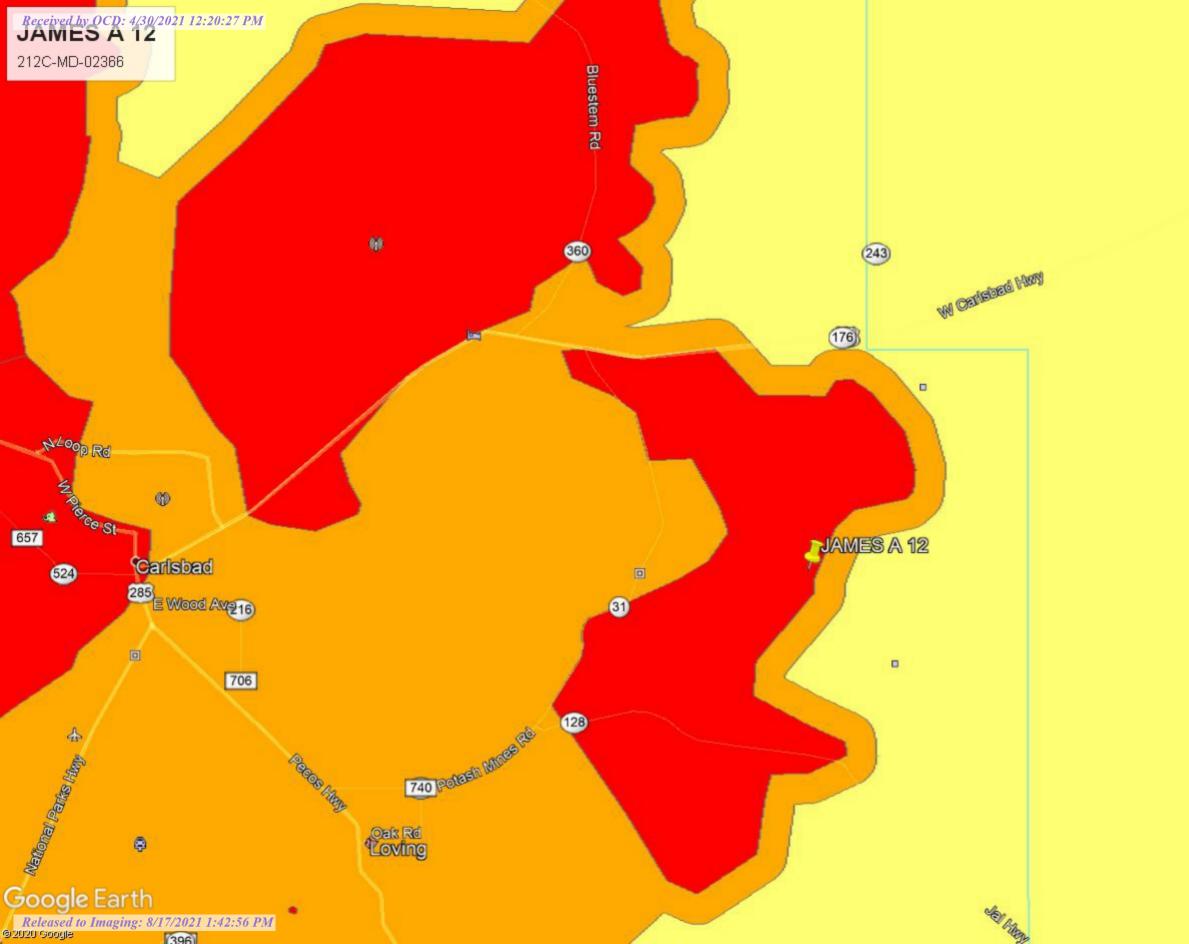
Remediation Plan

| Remediation Plan Checklist: Each of the following items must b | e 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) | | | | | | | | | | |
| | | | | | | | | | | |
| <u>Deferral Requests Only</u> : Each of the following items must be con | ifirmed 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 | n, 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: | | | | | | | | | | |
| Printed Name: Signature: | Date: | | | | | | | | | |
| email: | Telephone: | | | | | | | | | |
| OCD Oals | | | | | | | | | | |
| OCD Only | | | | | | | | | | |
| Received by: | Date: | | | | | | | | | |
| Approved | Approval | | | | | | | | | |
| Signature: | Date: | | | | | | | | | |

APPENDIX B Site Characterization Data

James A #12 (2RP-5696)





Legende 27 of 175

High
JAMES A 12
Low
Medium



No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 608387 **Northing (Y):** 3587277 **Radius:** 800

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)

1 2 3 35 21S 30E

(NAD83 UTM in meters)

(In feet)

POD

Sub- Q Q Q
Code basin County 64 16 4 Sec Tws Rng

X Y 607695 3589207*

Depth Depth Water
Distance Well Water Column

410

Average Denth to M

Average Depth to Water: --

2050

Minimum Depth: -

Maximum Depth: --

Record Count: 1

POD Number

C 03234 EXPLORE

UTMNAD83 Radius Search (in meters):

Easting (X): 608387 **Northing (Y):** 3587277 **Radius:** 2400

*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.



(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 Sub- | | Q | Q (| Q | | | | | | | Depth | Depth Water |
|-----------------|-------------|--------|----|-----|-----|------|-----|-----|--------|------------|----------|-------|--------------|
| POD Number | Code basin | County | 64 | 16 | 4 S | ec 1 | Гws | Rng | Х | Υ | Distance | - | Water Column |
| C 03234 EXPLORE | CUB | ED | 1 | 2 | 3 : | 35 2 | 21S | 30E | 607695 | 3589207* 🌕 | 2050 | 410 | |
| C 03003 | CUB | ED | 3 | 1 | 3 : | 31 2 | 21S | 31E | 610511 | 3588970* 🌍 | 2716 | 650 | |
| <u>C 02749</u> | CUB | ED | 1 | 1 | 1 | 18 2 | 22S | 31E | 610556 | 3585146* 🌍 | 3040 | 640 | |
| C 02750 | CUB | ED | 1 | 1 | 1 | 18 2 | 22S | 31E | 610556 | 3585146* 🌍 | 3040 | 741 | |
| C 02751 | CUB | ED | 1 | 1 | 1 | 18 2 | 22S | 31E | 610556 | 3585146* | 3040 | 637 | |

Average Depth to Water:

Minimum Depth:

Maximum Depth:

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 608387 Northing (Y): 3587277 **Radius: 3200**

*UTM location was derived from PLSS - see Help

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(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) (N

(NAD83 UTM in meters)

(In feet)

| | POD Sub- | | Q (| a q | | | | | | | Depth | Depth Water |
|-----------------|-------------|--------|------|-----|-----|-----|-----|--------|------------|----------|-------|--------------|
| POD Number | Code basin | County | 64 1 | 6 4 | Sec | Tws | Rng | Х | Υ | Distance | • | Water Column |
| C 03234 EXPLORE | CUB | ED | 1 | 2 3 | 35 | 21S | 30E | 607695 | 3589207* 🌍 | 2050 | 410 | |
| <u>C 03003</u> | CUB | ED | 3 | 1 3 | 31 | 21S | 31E | 610511 | 3588970* | 2716 | 650 | |
| <u>C 02749</u> | CUB | ED | 1 | 1 1 | 18 | 22S | 31E | 610556 | 3585146* 🌑 | 3040 | 640 | |
| <u>C 02750</u> | CUB | ED | 1 | 1 1 | 18 | 22S | 31E | 610556 | 3585146* 🌍 | 3040 | 741 | |
| C 02751 | CUB | ED | 1 | 1 1 | 18 | 22S | 31E | 610556 | 3585146* 🌍 | 3040 | 637 | |
| C 03002 | CUB | ED | 4 | 2 4 | 06 | 22S | 31E | 611933 | 3587375* 🌍 | 3547 | 668 | |
| C 02723 | CUB | ED | 2 | 2 3 | 15 | 22S | 30E | 606282 | 3584363* 🌑 | 3594 | 651 | |

Average Depth to Water:

Minimum Depth: --

DEPTH TO WATER

Maximum Depth: --

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 608387 Northing (Y): 3587277 Radius: 4000

*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.



(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)

| 3 , | , | , | • | | | | | J | , , | | , | , | , |
|-----------------|-------------|--------|----|----|-----|-------|----|-----|--------|------------|----------|-------|---------------------|
| | POD Sub- | | Q | Q | Q | | | | | | | Depth | Depth Water |
| POD Number | Code basin | County | 64 | 16 | 4 S | Sec T | ws | Rng | X | Υ | Distance | Well | Water Column |
| C 03234 EXPLORE | CUB | ED | 1 | 2 | 3 | 35 2 | 1S | 30E | 607695 | 3589207* | 2050 | 410 | |
| C 03003 | CUB | ED | 3 | 1 | 3 | 31 2 | 1S | 31E | 610511 | 3588970* | 2716 | 650 | |
| C 02749 | CUB | ED | 1 | 1 | 1 | 18 2 | 2S | 31E | 610556 | 3585146* | 3040 | 640 | |
| C 02750 | CUB | ED | 1 | 1 | 1 | 18 2 | 2S | 31E | 610556 | 3585146* | 3040 | 741 | |
| C 02751 | CUB | ED | 1 | 1 | 1 | 18 2 | 2S | 31E | 610556 | 3585146* | 3040 | 637 | |
| C 03002 | CUB | ED | 4 | 2 | 4 | 06 2 | 2S | 31E | 611933 | 3587375* 🌍 | 3547 | 668 | |
| C 02723 | CUB | ED | 2 | 2 | 3 | 15 2 | 2S | 30E | 606282 | 3584363* | 3594 | 651 | |
| C 02950 EXPL | CUB | ED | 4 | 2 | 4 | 23 2 | 2S | 30E | 608740 | 3582576* | 4714 | 845 | |

Average Depth to Water:

Minimum Depth:

Maximum Depth:

Record Count: 8

UTMNAD83 Radius Search (in meters):

Northing (Y): 3587277 Easting (X): 608387 Radius: 4800

*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.



(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)

| water right file.) | close | d) | ((| qua | πei | s a | re sr | nalles | st to larg | est) (I | NAD83 UTM in me | eters) | (1 | In feet) |
|--------------------|-------|------|--------|-----|---------|-----|-------|--------|------------|---------|-----------------|----------|------|--------------------------|
| | | POD | | | | | | | | | | | | |
| POD Number | Code | Sub- | County | | Q 16 | | Sec | Tws | Rna | Х | Y | Distance | - | Depth Water Water Column |
| C 03234 EXPLORE | Jour | CUB | ED | | | | | | 30E | 607695 | | 2050 | 410 | Trator Column |
| C 03003 | | CUB | ED | 3 | 1 | 3 | 31 | 21S | 31E | 610511 | 1 3588970* | 2716 | 650 | |
| C 02749 | | CUB | ED | 1 | 1 | 1 | 18 | 22S | 31E | 610556 | 3585146* | 3040 | 640 | |
| C 02750 | | CUB | ED | 1 | 1 | 1 | 18 | 22S | 31E | 610556 | 3585146* | 3040 | 741 | |
| C 02751 | | CUB | ED | 1 | 1 | 1 | 18 | 22S | 31E | 610556 | 3585146* 🌎 | 3040 | 637 | |
| <u>C 03002</u> | | CUB | ED | 4 | 2 | 4 | 06 | 22S | 31E | 611933 | 3587375* 🌍 | 3547 | 668 | |
| C 02723 | | CUB | ED | 2 | 2 | 3 | 15 | 22S | 30E | 606282 | 2 3584363* 🌍 | 3594 | 651 | |
| C 02950 EXPL | | CUB | ED | 4 | 2 | 4 | 23 | 22S | 30E | 608740 | 3582576* | 4714 | 845 | |
| C 02637 | | CUB | ED | 1 | 3 | 3 | 24 | 22S | 30E | 608950 | 3582377* 🌍 | 4932 | 759 | |
| C 03773 POD1 | С | CUB | ED | 4 | 2 | 2 | 32 | 21S | 30E | 604039 | 9 3589799 🌍 | 5026 | 55 | |
| C 03774 POD1 | С | CUB | ED | 2 | 4 | 2 | 32 | 21S | 30E | 604039 | 9 3589799 🌍 | 5026 | 32 | |
| <u>C 02748</u> | | CUB | ED | 1 | 2 | 3 | 17 | 22S | 31E | 612576 | 3584364* 🎒 | 5102 | 3856 | |
| C 03772 POD1 | С | CUB | ED | 2 | 4 | 2 | 32 | 21S | 30E | 603859 | 9 3589714 🎒 | 5142 | 30 | |
| C 03772 POD2 | С | CUB | ED | 4 | 2 | 2 | 32 | 21S | 30E | 603850 | 3589707 🌍 | 5147 | 30 | |
| C 03772 POD3 | С | CUB | ED | 4 | 2 | 2 | 32 | 21S | 30E | 603840 | 3589699 🌍 | 5151 | 30 | |
| C 03772 POD5 | С | CUB | ED | 4 | 2 | 2 | 32 | 21S | 30E | 603823 | 3 3589681 🌍 | 5158 | 30 | |
| C 03772 POD6 | С | CUB | ED | 4 | 2 | 2 | 32 | 21S | 30E | 603814 | 4 3589666 🎒 | 5159 | 30 | |
| C 03772 POD8 | С | CUB | ED | 4 | 2 | 2 | 32 | 21S | 30E | 603797 | 7 3589636 🌍 | 5161 | 30 | |
| C 03772 POD7 | С | CUB | ED | 4 | 2 | 2 | 32 | 21S | 30E | 603805 | 3589655 🌍 | 5162 | 30 | |
| C 03772 POD4 | С | CUB | ED | 4 | 2 | 2 | 32 | 21S | 30E | 603824 | 4 3589692 🎒 | 5162 | 30 | |
| C 03112 EXPLORE | | CUB | ED | 3 | 1 | 1 | 09 | 22S | 31E | 613753 | 3586590* | 5409 | 3567 | |
| C 03015 | | CUB | ED | 1 | 4 | 3 | 22 | 22S | 30E | 606099 | 9 3582353* 🎒 | 5429 | 1316 | 262 1054 |
| C 02683 | | CUB | ED | 3 | 1 | 1 | 20 | 22S | 31E | 612184 | 4 3583356* 🌕 | 5458 | 840 | |
| C 02682 | | CUB | ED | 4 | 4 | 4 | 80 | 22S | 31E | 613566 | 3585379* | 5515 | 4400 | |

*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: 4/30/2021 12:20:27 PM

Page 34 of 175

Average Depth to Water: 262 feet

Minimum Depth: 262 feet

Maximum Depth: 262 feet

Record Count: 24

UTMNAD83 Radius Search (in meters):

Easting (X): 608387 Northing (Y): 3587277 Radius: 5600

APPENDIX C Remediation Plan & NMOCD Denial Email (2020)

From: <u>Eads, Cristina, EMNRD</u>
To: <u>"Feiervary Morena, Gustavo A"</u>

Cc: Robert EMNRD Hamlet (Robert.Hamlet@state.nm.us); Victoria EMNRD Venegas (Victoria.Venegas@state.nm.us);

<u>Mike EMNRD Bratcher (mike.bratcher@state.nm.us)</u>

Subject: Remediation Plan Denial - James A 12 nRM193185684

Date: Thursday, February 27, 2020 3:41:00 PM

Attachments: (C-141 Remediation Plan Denied) - James A 12, nRM193185684.pdf

Gustavo.

The OCD has denied the submitted Remediation Plan C-141 for incident nRM193185684 (1RP-5696) for the following reasons:

- Benzene, BTEX, and TPH were not analyzed. At least one sample must be collected from the point of release and analyzed for Benzene, BTEX, and TPH. If concentrations of the aforementioned constituents are detected in the sample(s), delineation and confirmation samples will need to be collected and analyzed for all constituents listed in Table 1.
- The Remediation pages of the C-141 were not included with the submittal.

The Denied C-141 can be found in the online image database under the incident #. Please review and make the required corrections prior to resubmitting through the fee portal.

Please let me know if you have any questions.

Thanks,

Cristina Eads

Environmental Bureau

EMNRD – Oil Conservation Division

1220 South St. Francis Drive

Santa Fe, New Mexico 87505

505.476.3084

email: Cristina.Eads@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

January 13, 2020

Mike Bratcher District Supervisor Oil Conservation Division, District 2 811 S. First St. Artesia, NM 88210

Remediation Plan Denied - 02/27/2020, Cristina Eads

emnrd-ocd-district2spills@state.nm.us
Re: Release Characterization Work Plan
ConocoPhillips
James A-12 Injection Well
Unit P, Section 2, Township 22 South, Range 30 East
Eddy County, New Mexico
2RP-5696

Dear Mr. Bratcher:

ConocoPhillips conducted the **James A-12** (Unit P, Section 22, Township 22 South, Range 30 East), in Eddy County, New Mexico (Site). The release site coordinates are 32.4173279, -103.8466568

History

As reported to the State of New Mexico via C-141 Initial Report, the release occurred on October 16, 2019, due to flowline leak, about 18 barrels of produced water were released and nothing was recovered.

Site Characterization

Even that the spill occurred on pad and did not created additional disturbance, a site characterization was performed and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. However, the site is in a high karst potential area. According to the New Mexico Office of the State Engineer (NMOSE) the groundwater is at 262 feet below ground surface. Assessments are attached.

Initial Site Assessment

ConocoPhillips delineated and sampled the release area on November 05, 2019. Four samples points were completed at surface, 6", 2', 4', 6' and 8' from surface to evaluate the vertical contamination caused by the release. all samples were analyzed for chloride contamination Copies are attached.

Sampling Results

The results of samples taken are summarized below on the table and map attached.

Corrective Action Plan

Based on the obtained results, ConocoPhillips requests your approval to remove contaminated soil as proposed below.

SP 1 area: We propose to remove contaminated soil down to 9' below ground level

SP 2 area: We proposed to remove contaminated soil down to 9' below ground level.

SP 3 area: We propose to remove contaminated soil down to 2' below ground level.

SP 4 area: We proposed to remove contaminated soil down to 2' below ground level.

Bottom and sidewall sampling will be conducted and submitted to NMOCD for verification of remedial activities and analyzed for chlorides.

About 18,000 cubic feet of contaminated soil will be removed and replaced with clean caliche

Conclusion

ConocoPhillips proposes to complete remediation within 90 days of this submittal. Once completed, we will submit closure report, accordingly.

Regards,

Gustayo Fejervary.

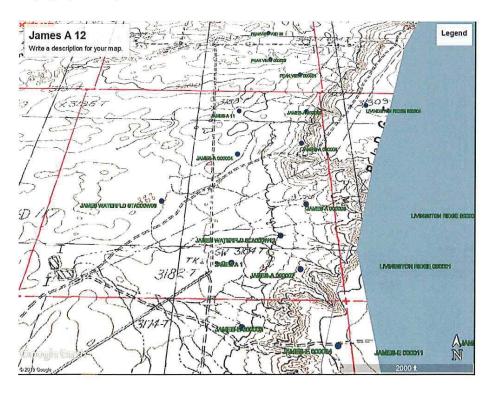
Environmental Coordinator

432-210-7037

Overview Maps.



Topographic Map



Groundwater determination



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-Code basin County 64 16 4 Sec Tws Rng

606099

Depth Depth Water Well Water Column

C 03015

CUB ED 1 4 3 22 22S 30E

3582353*

1316 262

Average Depth to Water: 262 feet

Minimum Depth: 262 feet

Maximum Depth: 262 feet

Record Count: 1

PLSS Search:

Section(s): 22

Township: 22S

Range: 30E

'UTM location was derived from PLSS - see Help

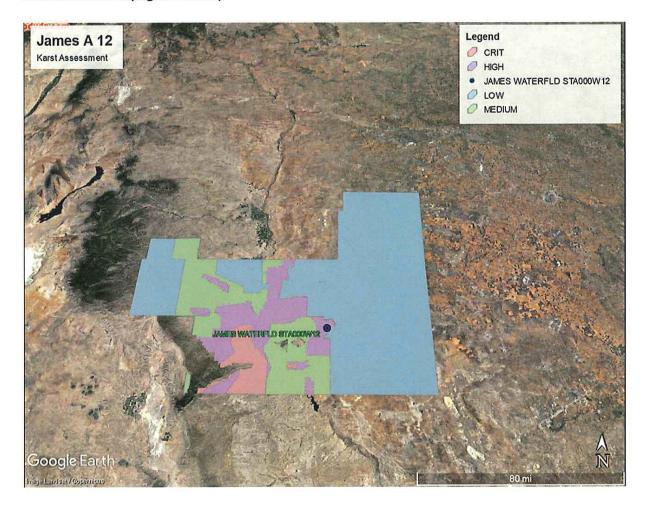
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/2/19 2:14 PM

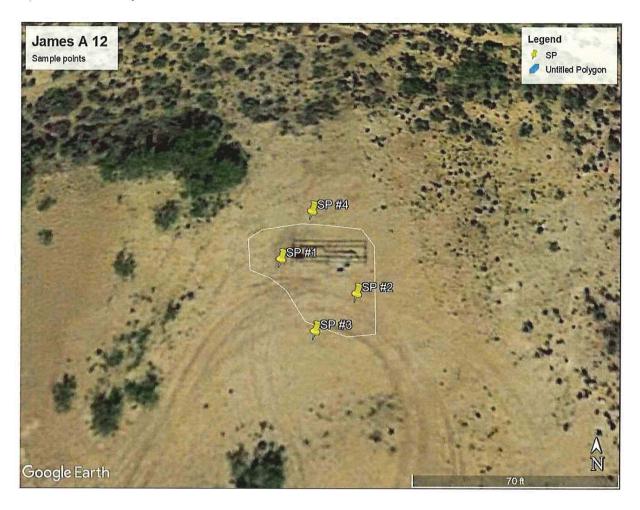
Page 1 of 1

WATER COLUMN/ AVERAGE **DEPTH TO WATER**

Karst Assessment (High Potential)



Spill Area and Sample Points.



| SAMPLE ID | SAMPLE DATE | SAMPLE INTERVAL | Chloric | de | To be remediated |
|-----------|-------------|-----------------|---------|-----|---------------------|
| | | ft | mg/kg | Q | o Te |
| SP #1 | 11/5/2019 | 6" | 31600 | | YES |
| SP #1 | 11/5/2019 | 2' | 1020 | | YES |
| SP #1 | 11/5/2019 | 4' | 640 | | YES |
| SP #1 | 11/5/2019 | 6' | 1840 | | YES |
| SP #1 | 11/5/2019 | 8' | 640 | | YES |
| SP #2 | 11/5/2019 | 6" | 15000 | | YES |
| SP #2 | 11/5/2019 | | 1150 | 744 | YES |
| SP #2 | 11/5/2019 | 4' | 1520 | | YES |
| SP #2 | 11/5/2019 | 6' | 1600 | | YES |
| SP #2 | 11/5/2019 | 8' | 1100 | | YES |
| SP #3 | 11/5/2019 | Surface | 2840 | | YES |
| SP #3 | 11/5/2019 | 2' | 32 | | |
| SP #3 | 11/5/2019 | 4' | 48 | | |
| SP #3 | 11/5/2019 | 6' | 16 | | |
| SP #3 | 11/5/2019 | | 16 | | |
| SP #4 | 11/5/2019 | Surface | 2320 | | YES |
| SP #4 | 11/5/2019 | 2' | 240 | | |
| SP #4 | 11/5/2019 | 4' | 64 | | |
| SP #4 | 11/5/2019 | | 656 | | |
| SP #4 | 11/5/2019 | | 624 | | |

Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

5-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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

RPD Relative Percent Difference

ND Analyte NOT DETECTED at or above the reporting limit

Excavation Plan.



District 1 1625 N, French Dr., Hobbs, NM 88240 District III 811 S, First SL, Arlesio, NM 88210 District III 1000 Rto Brazos Road, Aztee, NM 87410 District IV 1220 S, St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

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

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

Release Notification

Responsible Party

| Responsible Party ConocoPhillips Company | OGRID 217817 | |
|--|--------------------------------|--|
| Contact Name Gustavo Fejervary | Contact Telephone 432/210-7037 | |
| Contact email g.fejervary@cop.com | Incident # (costgood by OCD) | |
| Contact mailing address | 5735 SW 7000 Andrews, TX 79714 | |

Location of Release Source

| Latitude 32. | .4173279 |) | (NAD 83 in d | Longitude keimal degrees to 5 dech | -103.846656 mal places) | 8 |
|----------------|-------------------------|---|--|---------------------------------------|---|--|
| Site Name JA | MES A | 12 | | Site Type | Injection well | Annual Control of the |
| Date Release l | | | | | plicable) 30-015- | 26761 |
| Unit Letter | Section | Township | Range | Cour | nty | |
| Р | 02 | 228 | 30E | Eddy | | |
| Surface Owner | : 🛭 State | Federal T | ribal 🗌 Private | (Name: | |) |
| Surface Owner | | | Nature an | d Volume of | Release | shimus accorded below) |
| Surface Owner | Material | | Nature an | | Release | |
| | Material | i(s) Relensed (Sélect a | Nature an | d Volume of | Release | ered (bbls) |
| Crude Oll | Material | l(s) Released (Select a Volume Release Volume Release Is the concentra | Nature and attacked (bbls) ed (bbls) 18 tion of total disso | nd Volume of I | Release | ared (bbls) 0 |
| Crude Oll | Moterial Water | l(s) Released (Select a Volume Release Volume Release Is the concentra | Nature and attacked (bbls) ed (bbls) 18 tion of total disso | nd Volume of I | Release justification for the year Volume Recove | ered (bbls) O |
| ☐ Crude Oll | Material Water te | Volume Release Volume Release Volume Release Is the concentra in the produced | Nature and national littlest apply and national (bb/s) and (bb/s) and (bb/s) and (bb/s) and (bb/s) and (bb/s) and (bb/s) | nd Volume of I | Release ustification for the yellowing Recovery Volume Recovery Yes No | ered (bbls) ored (bbls) 0 |

Cause of Release flow line leak, on pad

| Form C-141 | State of New Mexico | | Incident ID | |
|--|--|---|--|--|
| Page 2 | Oil Conservation Division | | District RP | |
| | | | Facility ID | |
| | | | Application ID | |
| Was this a major | If YES, for what reason(s) does the rest | nonsifile narty consider | this a major release? | |
| release as defined by 19.15.29.7(A) NMAC? | The rest of the rest of the rest | ponsione purity consider | uns a major retenser | |
| Yes No | | | | |
| | | | | |
| If YES, was immediate n | otice given to the OCD? By whom? To | whom? When and by t | what means (phone, e | mail, etc)? |
| CONTRACTOR AND A CONTRA | | | | |
| | | Response | | |
| The responsible | party must undertake the following actions inmedia | otely tailess they could evente | a safety hazard that would | l residi in injury |
| The source of the rele | ease lias been stopped. | | | |
| 2000 CO | s been secured to protect human health as | nd the environment. | | |
| Released materials ha | ave been contained via the use of berms o | r dikes, absorbent pads. | or other containmen | t devices. |
| | ecoverable materials have been removed a | | | |
| The service of the se | d above have <u>not</u> been undertaken, explain | | - November | · · · · · · · · · · · · · · · · · · · |
| The state of the s | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| has begun, please attach a | AC the responsible party may commence a narrative of actions to date. If remedia t area (see 19.15.29.11(A)(5)(a) NMAC). | d efforts have been suc | cessfully completed | or if the release occurre |
| regulations all operators are republic health or the environm failed to adequately investigated times. OCD acceptance of and/or regulations. | mation given above is true and complete to the required to report and/or file certain release no nent. The acceptance of a C-141 report by the atc and remediate contamination that pose a the fa C-141 report does not relieve the operator of the contamination of the contaminatio | ntifications and perform co OCD does not relieve the reat to proundwater, surfa | orrective actions for rele coperator of liability shale are water, burnan bealth | ases which may endanger ould their operations have or the environment. In |
| Printed Name:Gus | stavo Fejervary | Title: Environ | mental Coordina | itor |
| Signature; | 11 | Date: 10/16/1 | 9_ | |
| cmail: g.fejervary@o | бр.сот | Telephone: 432/ | 210-7037 | |
| OCD Only | The state of the s | ************************************** | | annana annan a |
| Received by: | MANUAL STATE OF THE STATE OF TH | Date: | - MANUE | |

Form C-141 Page 3 State of New Mexico Oil Conservation Division

| Incident ID | |
|----------------|----------|
| District RP | 2RP-5696 |
| 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. |
| Data table of soil contaminant concentration data |
| Depth to water determination |
| Determination of water sources and significant watercourses within %-mile of the lateral extents of the release |
| ☑ Boring or excavation logs |
| Deltographs 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 | nRM1931856084 |
|----------------|---------------|
| District RP | 2RP-5696 |
| Facility ID | |
| Application ID | |

| regulations all operators are required to report and/or file certain rele public health or the environment. The acceptance of a C-141 report failed to adequately investigate and remediate contamination that po: | e to the best of my knowledge and understand that pursuant to OCD rules and lease notifications and perform corrective actions for releases which may endanger by the OCD does not relieve the operator of liability should their operations have se a threat to groundwater, surface water, human health or the environment. In rator of responsibility for compliance with any other federal, state, or local laws |
|--|--|
| Printed Name: Gustavo Fejervary | Title: Environmental Coordinator |
| Signature: 31.44 | Date: 01/14/20 |
| email: g.fejervary@cop.com | Telephone: 432/210-7037 |
| OCD Only Received by: Cristina Eads | Date: 02/27/2020 |



November 08, 2019

JUSTIN WRIGHT

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: JAMES A #12

Enclosed are the results of analyses for samples received by the laboratory on 11/06/19 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keena

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Page 1 of 9



Analytical Results For:

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

Fax To:

(575) 297-1477

Received: Reported: 11/06/2019

11/08/2019

Project Name: Project Number: JAMES A #12

Project Location:

Analyte

NONE GIVEN

COPC - EDDY CO NM

Reporting Limit

16.0

Reporting Limit

16.0

16.0

Reporting Limit

16.0

Sampling Date:

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

11/05/2019

Tamara Oldaker

Sample ID: SP #1 - 6" (H903792-01)

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

Chloride

mg/kg

Result

31600

Result

1020

Analyzed

11/07/2019

Analyzed

11/07/2019

Analyzed By: AC

BS

400

BS

400

% Recovery

100

True Value QC

400

RPD 3.92

RPD

3.92

Qualifier

Sample ID: SP #1 - 2' (H903792-02)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Method Blank

ND

Method Blank

ND

% Recovery

100

True Value QC

400

400

Qualifier

Analyte

Analyte

Analyte

Sample ID: SP #1 - 4' (H903792-03)

mg/kg

Analyzed By: AC

Result Reporting Limit 640

Analyzed 11/07/2019 Method Blank ND

BS % Recovery 400 100

True Value QC 3,92

RPD Qualifier

Sample ID: SP #1 - 6' (H903792-04) Chloride, SM4500CI-B

Chloride, SM4500CI-B

mg/kg

Result

1840

Analyzed By: AC

Analyzed 11/07/2019

Method Blank ND

BS 400 % Recovery 100

True Value QC 400

RPD

3.92

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celega Keena

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 9



Analytical Results For:

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

Fax To:

(575) 297-1477

Received:

11/06/2019

Reported:

11/08/2019 JAMES A #12

Project Name: Project Number:

NONE GIVEN

Project Location:

Analyte

Analyte

Analyte

Analyte

Analyte

Sampling Date:

Soil

Sampling Type:

Sampling Condition:

Cool & Intact

11/05/2019

Sample Received By:

Tamara Oldaker

COPC - EDDY CO NM

Sample ID: SP #1 - 8' (H903792-05)

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

mg/kg

Result

640

Result

15000

Result

1150

Analyzed By: AC

Analyzed

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

Reporting Limit

16.0

Method Blank 11/07/2019

ND

BS 400 % Recovery 100

True Value QC

400

RPD Qualifier

Sample ID: SP #2 - 6" (H903792-06)

Chloride, SM4500CI-B

Analyzed By: AC

Method Blank

% Recovery

100

True Value QC

400

RPD

3.92

3.92

Qualifier

Sample ID: SP #2 - 2' (H903792-07)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyzed

11/07/2019

Analyzed

11/07/2019

Method Blank

ND

ND

BS

400

BS

400

% Recovery

100

True Value QC 400

RPD

3.92

Qualifier

Sample ID: SP #2 - 4' (H903792-08)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Method Blank

BS

% Recovery

True Value QC

RPD

Qualifier

Chloride

Chloride

1520

Result

16.0

Analyzed 11/07/2019

ND

400

100

400

3.92

Sample ID: SP #2 - 6' (H903792-09)

Chloride, SM4500CI-B

Result

1600

Analyzed

11/07/2019

mg/kg

Analyzed By: AC

Method Blank

ND

BS

400

% Recovery

100

True Value QC

400

RPD

3.92

Qualifier

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*=Accredited Analyte

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Celley to treene-

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 9



Analytical Results For:

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

Fax To:

(575) 297-1477

Received:

11/06/2019

Reported:

11/08/2019

Project Name: Project Number: JAMES A #12

Project Location:

Analyte

Analyte

Analyte

Analyte

Analyte

NONE GIVEN

COPC - EDDY CO NM

Sampling Date:

11/05/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP #2 - 8' (H903792-10)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Result 1100

Reporting Limit Analyzed

16.0

Reporting Limit

16.0

Reporting Limit

16.0

ND

Method Blank

400

BS

% Recovery 100

True Value QC 400

RPD Qualifier

3.92

3.92

3,92

Sample ID: SP #3 - SURFACE (H903792-11)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

% Recovery

True Value QC

RPD Qualifier

Chloride

Chloride

Chloride

2840

Result

11/07/2019

Method Blank ND

BS 400

100

400

Sample ID: SP #3 - 2' (H903792-12)

Chloride, SM4500CI-B

mg/kg

Result

32.0

Result

Analyzed By: AC Analyzed

11/07/2019

Analyzed

11/07/2019

Method Blank

ND

BS

400

% Recovery

100

True Value QC

RPD Qualifier

Sample ID: SP #3 - 4' (H903792-13)

Chloride, SM4500CI-B

Analyzed By: AC

Method Blank

% Recovery

True Value QC

400

RPD Qualifier

Chloride

Chloride

48.0

Reporting Limit 16.0

Reporting Limit

16.0

Analyzed 11/08/2019

Analyzed

11/08/2019

ND

BS 400

100

400

True Value QC

400

7.69

Chloride, SM4500Cl-B

mg/kg

Sample ID: SP #3 - 6' (H903792-14)

Result

16.0

Analyzed By: AC

Method Blank

ND

BS

400

% Recovery

100

7.69

RPD Qualifier

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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 9



Analytical Results For:

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

Fax To:

(575) 297-1477

Received: Reported: 11/06/2019

11/08/2019

Project Name:

JAMES A #12

Project Number:

NONE GIVEN

Project Location:

Analyte

Analyte

Analyte

Analyte

Analyte

COPC - EDDY CO NM

Sampling Date:

11/05/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP #3 - 8' (H903792-15)

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

mg/kg

Result

16.0

Result

2320

Result

240

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed By: AC

Method Blank

ND

BS % Recovery

True Value QC

400

RPD Qualifier

7.69

Sample ID: SP #4 - SURFACE (H903792-16)

Chloride, SM4500CI-B

Analyzed By: AC

Method Blank

ND

BS

400

400

% Recovery

100

100

True Value QC

Qualifier

RPD 7.69

Sample ID: SP #4 - 2' (H903792-17)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC Analyzed

11/08/2019

Analyzed

Analyzed

11/08/2019

Analyzed

11/08/2019

Analyzed

11/08/2019

Method Blank

ND

ND

ND

BS

400

BS

% Recovery 100

True Value QC 400

400

RPD 7.69 Oualifier

Sample ID: SP #4 - 4' (H903792-18)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Method Blank

% Recovery

True Value QC

RPD

Qualifier

Chloride

64.0

Result

256

Result

16.0

Reporting Limit

Reporting Limit

16.0

11/08/2019

400

100

400

7.69

Sample ID: SP #4 - 6' (H903792-19)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Method Blank BS

400

% Recovery

100

True Value QC

400

RPD

7.69

Qualifier

Chloride

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 9



Analytical Results For:

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

Fax To:

(575) 297-1477

Received:

11/06/2019

Reported:

11/08/2019

Project Name: Project Number: JAMES A #12

Project Location:

NONE GIVEN

COPC - EDDY CO NM

Sampling Date:

11/05/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP #4 - 8' (H903792-20)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyte

Result

Analyzed 11/08/2019 Method Blank ND

BS

% Recovery

True Value QC

RPD

Qualifier

Chloride

624

Reporting Limit 16.0

400

100

400

7.69

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Celey D. Keene, Lab Director/Quality Manager

Page 6 of 9



Notes and Definitions

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celey D. Keene, Lab Director/Quality Manager

Page 7 of 9

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



| Company Name: ConocoPhillips | | BILL TO | ANALYSIS REQUEST |
|---|---|--|--|
| Project Manager: Justin Wright | | P.O. #: | |
| Address: | | Company: ConocoPhillips | |
| City: Hobbs | St NM Zip: # | Attn: | |
| Phone #: 575-631-9092 | Fax#: | Address: | |
| Project#: | Project Owner: COPC | City: | |
| Project Name: James A 12 | | State: Zip: | |
| 9 | MM | Phone #: | |
| Sampler Name: Justin Wright | | Fax #: | |
| | MATRIX | PRESERV. SAMPLING | |
| 463792 | | | Ch/ori |
| Lab I.D. Sample | RAB QI ONTA I OUND STEW IL | HER: ID/BA\$ E/COO HER: | |
| | # G S O S | A IC | |
| 19-1#95 | • | . //-5 | The second secon |
| 2 Sp#1-a | 6 | 71-5 | |
| 3 57#1-41 | 6 | * 11-5 | V |
| 4 57#1-6 | 0 | 1/-5 | < |
| S 58#1-8' | 6 | . 11-5 | |
| 6 SP#2-6" | G | . 11-5 | |
| 7 5722-2 | 6 | . 11-5 | V |
| 8 59\$2-4 | G | * 11.5 | |
| 3 SP#2-6 | 0 | 11-5 | |
| 10 SP#2-8' | 6 | * 11.5 | V |
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| Relinquished By:// | Date: Received By: | 11111 | Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address: |
| Relinduished By: | Date: 45 PA Received By: | Minhall | REMARKS: |
| | Time: | | |
| Delivered By: (Circle One) | Observed Temp. °C - 1. Cool Intact | n CHECKED BY: (Initials) | Turnaround Time: Standard 🔄 Bacteria (only) Sample Condition Rush 🔲 Cool Infact Observed Temp. °C |
| Sampler - UPS - Bus - Other: | Corrected Temp. °C - 1.2 Pres Pres | 1 | Thermometer ID #97 ☐ Yes ☐ Yes ☐ Yes ☐ Corrected Temp. °C |

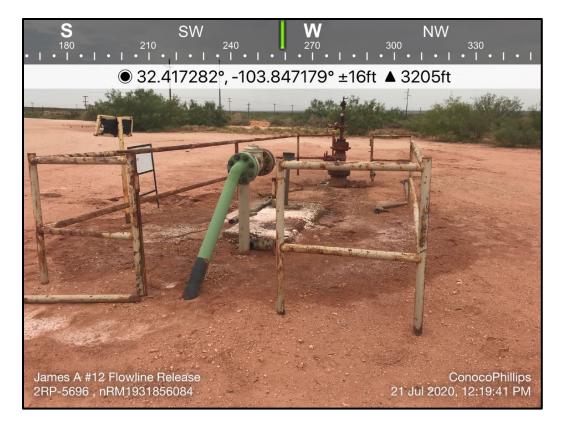


CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

| Company Name: ConocoPhillips | ps | BILL TO | ANALYSIS REQUEST |
|--|---|---|---|
| Project Manager: Justin Wright | | P.O. #: | |
| Address: | | Company: ConoccPhillips | 8 |
| City: Hobbs | St NM Zip: # | Attn: | |
| Phone #: 575-631-9092 | Fax #: | Address: | |
| Project #: | Project Owner: COPC | City: | |
| Project Name: James RAI | | State: Zip: | |
| Project Location: Foby County | , NIM | Phone #: | |
| Sampler Name: Justin Wright | | Fax#: | |
| FOR LAB USE ONLY | MATRIX | PRESERV. SAMPLING | |
| | R (C)OMF IERS VATER | | Chlory |
| Lab I.D. Sample I.B | AB OF NTA N UNDV TEWA | /BASE | |
| 1403792 | # CO GRO WAS SOIL OIL SLUI | | TIME |
| 1 SP#3-Surt | 0 | . 11-5 | |
| 12 5743-2 | G | . 11-5 | |
| 13 5743-41 | 6 | . 11-5 | |
| 19-8465 41 | 0 | . 11.5 | |
| 18-84851 | G | . 11-5 | |
| 16 SP#12-5W/G | 0 | . 11.5 | |
| 17 Sp#4-2 | o , | . 11-5 | |
| 15 26 26 15 15 15 15 15 15 15 15 15 15 15 15 15 | 0 | . 1/25 | |
| 19 SP#4-6 | G | . 1/25 | 4 |
| 70 SP# | Ω | . 1/25 | |
| PLEASE NOTE: Liability and Damages. Cardinal's fability and Damages, Cardinal's fability analyses, All claims including those for negligence and an across, in no event shall Cardinal be fiable for incloration of the professional of the control of | PLEASE NOTE: Liability and Domages. Cardinal's liability and client's coductive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. Lit claims inclicing those for neighbories and any other cause windscerer shall be determed where during shall neceived by Cardinal whithis 30 days after completion of the applicable cannot be read Cardinal be fable for incliental or consequental damages, circluting without initiations, business interruptions, loss of they, or to stylictly contained by client, as the state of the cardinal be fable for incliental or cannot be substituted. | or tort, shall be limited to the amount paid be received by Cardinal within 30 days after or soot uter, or loss of profits mounted by other broad incomment by other broad incomment of the cardinal state. | y the client for the applicable ampleton of the applicable for the substance. |
| N E | Date: A Received By: | A Part | Verbal Result: ☐ Yes ☐ No ☐ Add'I Phone #: All Results are emailed. Please provide Email address: |
| Relinquished By | Date: Received By: | | REMARKS: |
| Delivered By: (Circle One) | 2 | CHECKED BY: | (n) |
| Sampler - UPS - Bus - Other: | Corrected Temp. °C -/. 2 TYPES TO NO NO | Y CO | |

APPENDIX D Photographic Documentation



| TETRA TECH, INC. PROJECT NO. | DESCRIPTION | View west. 2RP-5696 release footprint. | 1 |
|---------------------------------|-------------|--|-----------|
| 212C-MD-02366 | SITE NAME | James A #12 Flowline Release | 7/21/2020 |



| TETRA TECH, INC. | DESCRIPTION | View south. 2RP-5696 release area. | 2 |
|------------------|-------------|------------------------------------|-----------|
| 212C-MD-02366 | SITE NAME | James A #12 Flowline Release | 7/21/2020 |



| TETRA TECH, INC. PROJECT NO. | DESCRIPTION | View SW. 2RP-5696 release area. | 3 |
|---------------------------------|-------------|---------------------------------|-----------|
| 212C-MD-02366 | SITE NAME | James A #12 Flowline Release | 7/21/2020 |



| TETRA TECH, INC. | DESCRIPTION | View north. 2RP-5696 release area. | 4 |
|------------------|-------------|------------------------------------|-----------|
| 212C-MD-02366 | SITE NAME | James A #12 Flowline Release | 7/21/2020 |



| TETRA TECH, INC. | DESCRIPTION | View SE. Soil/caliche pile on production pad. | 5 |
|------------------|-------------|---|-----------|
| 212C-MD-02366 | SITE NAME | James A #12 Flowline Release | 7/21/2020 |

APPENDIX E Laboratory Analytical Data



ANALYTICAL REPORT

January 04, 2021

ConocoPhillips - Tetra Tech

Sample Delivery Group: L1299139 Samples Received: 12/19/2020

Project Number: 212C-MD-02366

Description: James A #12 Injection Line Release AoC 7143

Report To: Chrisian Llull

901 West Wall

Suite 100

Midland, TX 79701

Entire Report Reviewed By:

Chu, toph J men

Chris McCord Project Manager

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Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122

615-758-5858

800-767-5859

www.pacenational.com

¹Cp















| TABLE OF CONTENTS | |
|---------------------------|----|
| Cp: Cover Page | 1 |
| Tc: Table of Contents | 2 |
| Ss: Sample Summary | 4 |
| Cn: Case Narrative | 12 |
| Sr: Sample Results | 13 |
| BH-1 (0-1') L1299139-01 | 13 |
| BH-1 (2-3') L1299139-02 | 14 |
| BH-1 (4-5') L1299139-03 | 15 |
| BH-1 (6-7') L1299139-04 | 16 |
| BH-1 (9-10') L1299139-05 | 17 |
| BH-1 (14-15') L1299139-06 | 18 |
| BH-1 (19-20') L1299139-07 | 19 |
| BH-1 (24-25') L1299139-08 | 20 |
| BH-1 (29-30') L1299139-09 | 21 |
| BH-1 (34-35') L1299139-10 | 22 |
| BH-1 (39-40') L1299139-11 | 23 |
| BH-1 (44-45') L1299139-12 | 24 |
| BH-1 (49-50') L1299139-13 | 25 |
| BH-2 (0-1') L1299139-14 | 26 |
| BH-2 (2-3') L1299139-15 | 27 |
| BH-2 (4-5') L1299139-16 | 28 |
| BH-2 (6-7') L1299139-17 | 29 |
| BH-2 (9-10') L1299139-18 | 30 |
| BH-2 (14-15') L1299139-19 | 31 |
| BH-2 (19-20') L1299139-20 | 32 |
| BH-2 (24-25') L1299139-21 | 33 |
| BH-2 (29-30') L1299139-22 | 34 |
| BH-2 (34-35') L1299139-23 | 35 |
| BH-2 (39-40') L1299139-24 | 36 |
| BH-3 (0-1') L1299139-25 | 37 |
| BH-3 (2-3') L1299139-26 | 38 |
| BH-3 (4-5') L1299139-27 | 39 |
| BH-3 (6-7') L1299139-28 | 40 |
| BH-4 (0-1') L1299139-29 | 41 |
| BH-4 (2-3') L1299139-30 | 42 |
| BH-4 (4-5') L1299139-31 | 43 |
| BH-4 (6-7') L1299139-32 | 44 |
| BH-5 (0-1") L1299139-33 | 45 |
| BH-5 (2-3') L1299139-34 | 46 |
| BH-5 (4-5') L1299139-35 | 47 |
| | |















| BH-5 (6-7') L1299139-36 | 48 |
|---|----|
| BH-6 (0-1') L1299139-37 | 49 |
| BH-6 (2-3') L1299139-38 | 50 |
| BH-6 (4-5') L1299139-39 | 51 |
| BH-6 (6-7') L1299139-40 | 52 |
| Qc: Quality Control Summary | 53 |
| Total Solids by Method 2540 G-2011 | 53 |
| Wet Chemistry by Method 300.0 | 59 |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | 61 |
| Volatile Organic Compounds (GC/MS) by Method 8260B | 64 |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | 67 |
| GI: Glossary of Terms | 70 |
| Al: Accreditations & Locations | 71 |
| Sc: Sample Chain of Custody | 72 |





















| Martino | | 0711111 22 1 | 3 0 11111 | ,,, ,,, , | | | |
|---|---|--------------|-----------|----------------|---------------------|---------------|----------------|
| Cale | BH-1 (0-1') L1299139-01 Solid | | | • | | | |
| Cale | Method | Batch | Dilution | Preparation | Analysis | Analyst | Location |
| Michael 200.0 Michael 200.0 Michael 200.0 Michael 100 Michael | | | | • | , | | |
| Michael 200.0 Michael 200.0 Michael 200.0 Michael 100 Michael | Total Solids by Method 2540 G-2011 | WG1598922 | 1 | 12/31/20 00:20 | 12/31/20 00:29 | KDW | Mt. Juliet, TN |
| Michael Cognic Compounds (GOMS) for Method 8015/0F60 Michael Spanic Compounds (GOMS) for Method 8015 Michael Spanic Compounds (GOMS) Method 8015 Michael Spanic Compounds | • | WG1598695 | 10 | | | | |
| Vicalita Cirganic Compounds (GC) by Method 82608 WG1597100 VG1598769 VG1598769 VG1597202 VG15 VG10202 VG15 VG10202 VG15 VG10202 VG15 VG10202 VG15 VG10202 VG15 VG10202 | | WG1598607 | 33.8 | 12/23/20 21:15 | 12/30/20 01:37 | ACG | Mt. Juliet, TN |
| Math- | | WG1597130 | 1.35 | 12/23/20 21:15 | 12/24/20 20:59 | DWR | Mt. Juliet, TN |
| Method | | WG1598769 | 1 | 12/29/20 23:13 | 12/30/20 22:15 | TJD | Mt. Juliet, TN |
| Batch Dilution Peparation Analysis Analysis Location Catelotime Cat | | | | Collected by | Collected date/time | Received da | te/time |
| Total Solids by Method 2540 G-2011 Vict Semi-World Se | BH-1 (2-3') L1299139-02 Solid | | | Joe Tyler | 12/16/20 10:10 | 12/19/20 10:4 | 15 |
| Method 300.0 Woffs98695 1 12/30/20 0105 12/30/20 03.27 EN M. Juliet, TN Valatile Organic Compounds (GC) by Method 8015D/GRO Woffs98607 30.8 12/23/20 2115 12/30/20 0155 ACG M. Juliet, TN Valatile Organic Compounds (GC) by Method 8015D Woffs98769 1 12/23/20 2131 12/31/20 0118 T.D. | Method | Batch | Dilution | · · | • | Analyst | Location |
| Volatile Organic Compounds (GC) by Method 80150/GRO WG1598607 MG159730 3.08 (273720 21:15) 12/30/20 01:57 (27470 21:18) DVG Mt. Juliet, TN Volatile Organic Compounds (GC) by Method 8015 WG1598790 1.2 (27270 21:15) 12/31/20 01:18 DVM Mt. Juliet, TN BH-1 (4-5') L1299139-03 Solid Collected by Open Juliet Collected dato/lime Received dato/lime Brown Juliet, TN Total Solids by Method 2540 G-2011 WG1598792 1 1 12/31/20 00:20 12/31/20 00:29 KDW Mt. Juliet, TN Volatile Organic Compounds (GC) by Method 8015D/GRO WG1598695 1 1 12/31/20 00:20 12/31/20 00:29 KDW Mt. Juliet, TN Volatile Organic Compounds (GC) by Method 8015D/GRO WG1598695 1 1 12/30/20 01:05 12/30/20 02:18 Analysis Analysis Analysis Analysis Analysis MG199809 1 1 12/30/20 00:00 12/30/20 00:37 ELN Mt. Juliet, TN Valsile Organic Compounds (GC) by Method 8015D/GRO WG1598695 1 1 12/30/20 00:10 12/30/20 00:33 Analysis Analysis Analysis Analysis Analysis Analysis Analysis Analysis Analysis Analy | Total Solids by Method 2540 G-2011 | WG1598922 | 1 | 12/31/20 00:20 | 12/31/20 00:29 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 82608 WG1593730 1.23 12/23/20 21:15 12/24/20 21:18 DWR Mt. Juliet, TN Semi-Volatile Organic Compounds (GC) by Method 8015 WG1598769 1 12/23/20 23:13 12/31/20 00:18 TJD Mt. Juliet, TN BH-1 (4-5') L1299139-03 Solid Collected by Joe Tyler Collected date/time (21/91/20 10:20) 22/19/20 10:45 Total Solids by Method 2540 G-2011 WG1598922 1 12/31/20 00:20 KDW Mt. Juliet, TN Wet Chemistry by Method 2540 G-2011 WG1598922 1 12/30/20 00:50 12/30/20 00:37 ELN Mt. Juliet, TN Wolstile Organic Compounds (GC) by Method 8015D/GRO WG1598607 41.8 12/23/20 2115 12/30/20 00:37 ELN Mt. Juliet, TN Wolstile Organic Compounds (GC) by Method 8015D/GRO WG1598769 1 12/29/20 23:13 12/30/20 00:37 ELN Mt. Juliet, TN Wethod Degral Compounds (GC) by Method 8015D/GRO WG1598769 1 12/29/20 23:13 12/30/20 00:33 ELN Mt. Juliet, TN Method Batch Dilution Preparation date/time date/time date/time date/ | Wet Chemistry by Method 300.0 | WG1598695 | 1 | 12/30/20 01:05 | 12/30/20 03:27 | ELN | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (PC) by Method 8015 WG1598769 1 2/29/20 23:31 12/30/20 01:18 TJD Mt Juliet, TN BH-1 (4-5') L1299139-03 Solid Collected by Jevier Collected date/time 12/10/20 10:20 12/19/20 10:35 1 Method Batch Dilution of date/time Analysis Analysis Analysis Location of date/time Total Solids by Method 2540 G-2011 WG1598925 1 12/30/20 00:20 12/30/20 00:337 ELN MWL Juliet, TN Wet Chemistry by Method 300.0 WG1598695 1 12/23/20 20:15 12/30/20 00:337 ELN Mt Juliet, TN Volatile Organic Compounds (GC) by Method 8015D/GRO WG15998769 1 12/23/20 21:15 12/30/20 03:37 ELN Mt Juliet, TN Semi-Volatile Organic Compounds (GC) by Method 8015D/GRO WG1598769 1 12/29/20 23:31 12/30/20 03:37 ELN Mt Juliet, TN Method Batch Dilution Preparation date/time Analysis Analysi Analysi Location date/time Total Solids by Method 2540 G-2011 WG1598805 5 1/23/ | Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1598607 | 30.8 | 12/23/20 21:15 | 12/30/20 01:57 | ACG | Mt. Juliet, TN |
| BH-1 (4-5') L1299139-03 Solid Sol | Volatile Organic Compounds (GC/MS) by Method 8260B | WG1597130 | 1.23 | 12/23/20 21:15 | 12/24/20 21:18 | DWR | Mt. Juliet, TN |
| BH-1 (4-5') L1299139-O3 SOlid Batch Dilution Preparation Analysis Analysis Cocation date/time da | Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1598769 | 1 | 12/29/20 23:13 | 12/31/20 01:18 | TJD | Mt. Juliet, TN |
| Method Batch Dilution Preparation Analysis Analyst Location | | | | Collected by | Collected date/time | Received da | te/time |
| Total Solids by Method 2540 G-2011 | BH-1 (4-5') L1299139-03 Solid | | | Joe Tyler | 12/16/20 10:20 | 12/19/20 10:4 | 15 |
| Wet Chemistry by Method 300.0 WG1598695 1 12/30/20 01:05 12/30/20 03:37 ELN Mt. Juliet, TN Volatile Organic Compounds (GC) by Method 8015D/GRO WG1598607 41.8 12/23/20 21:15 12/30/20 02:18 ACG Mt. Juliet, TN Volatile Organic Compounds (GC/MS) by Method 8260B WG1597130 1.67 12/23/20 21:15 12/30/20 02:33 TJD Mt. Juliet, TN Semi-Volatile Organic Compounds (GC) by Method 8015 WG1598769 NG1598769 NG1598 | Method | Batch | Dilution | • | • | Analyst | Location |
| Volatile Organic Compounds (GC) by Method 8015D/GRO WG1598607 41.8 12/23/20 21:15 12/30/20 02:18 ACG Mt. Juliet, TN | Total Solids by Method 2540 G-2011 | WG1598922 | 1 | 12/31/20 00:20 | 12/31/20 00:29 | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B WG1597130 1.67 12/23/20 21:15 12/24/20 21:37 DWR Mt. Juliet, TN Semi-Volatile Organic Compounds (GC) by Method 8015 WG1598769 1 12/29/20 23:13 12/30/20 20:43 TJD Mt. Juliet, TN | Wet Chemistry by Method 300.0 | WG1598695 | 1 | 12/30/20 01:05 | 12/30/20 03:37 | ELN | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 WG1598769 1 12/29/20 23:13 12/30/20 20:43 TJD Mt. Juliet, TN | Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1598607 | 41.8 | 12/23/20 21:15 | 12/30/20 02:18 | ACG | Mt. Juliet, TN |
| Collected by Collected date/time Preparation Analysis Analyst Location | Volatile Organic Compounds (GC/MS) by Method 8260B | WG1597130 | 1.67 | 12/23/20 21:15 | 12/24/20 21:37 | DWR | Mt. Juliet, TN |
| BH-1 (6-7') L1299139-04 Solid Batch Dilution Preparation Analysis Analyst Location | Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1598769 | 1 | 12/29/20 23:13 | 12/30/20 20:43 | TJD | Mt. Juliet, TN |
| Method Batch Dilution date/time Preparation date/time Analysis date/time Analysis Analysis Location Total Solids by Method 2540 G-2011 WG1598923 1 12/30/20 13:57 12/30/20 14:08 KDW Mt. Juliet, TN Wet Chemistry by Method 300.0 WG1598695 5 12/30/20 01:05 12/30/20 03:46 ELN Mt. Juliet, TN Volatile Organic Compounds (GC) by Method 8015D/GRO WG1598607 32.8 12/23/20 21:15 12/30/20 02:39 ACG Mt. Juliet, TN Volatile Organic Compounds (GC/MS) by Method 8260B WG15987130 1.31 12/23/20 21:15 12/24/20 21:56 DWR Mt. Juliet, TN Semi-Volatile Organic Compounds (GC) by Method 8015 WG1598769 1 12/29/20 23:13 12/30/20 20:56 TJD Mt. Juliet, TN BH-1 (9-10') L1299139-05 Solid Collected by Joe Tyler Collected date/time Received date/time BH-1 (9-10') L1299139-05 Solid Batch Dilution Preparation date/time Analysis Analyst Location Method Batch Dilution Preparation date/time Analyst < | | | | Collected by | Collected date/time | Received da | te/time |
| Total Solids by Method 2540 G-2011 WG1598923 1 12/30/20 13:57 12/30/20 14:08 KDW Mt. Juliet, TN Wet Chemistry by Method 300.0 WG1598695 5 12/30/20 01:05 12/30/20 03:46 ELN Mt. Juliet, TN Wolatile Organic Compounds (GC) by Method 8015D/GRO WG1598607 32.8 12/23/20 21:15 12/30/20 02:39 ACG Mt. Juliet, TN Wolatile Organic Compounds (GC) by Method 8260B WG1597130 1.31 12/23/20 21:15 12/24/20 21:56 DWR Mt. Juliet, TN Semi-Volatile Organic Compounds (GC) by Method 8015 WG1598769 1 12/29/20 23:13 12/30/20 02:39 ACG Mt. Juliet, TN Method Batch Dilution Preparation Analysis | BH-1 (6-7') L1299139-04 Solid | | | Joe Tyler | 12/16/20 10:30 | 12/19/20 10:4 | 15 |
| Total Solids by Method 2540 G-2011 WG1598923 1 12/30/20 13:57 12/30/20 14:08 KDW Mt. Juliet, TN Wet Chemistry by Method 300.0 WG1598695 5 12/30/20 01:05 12/30/20 03:46 ELN Mt. Juliet, TN Volatile Organic Compounds (GC) by Method 8015D/GRO WG1598607 32.8 12/23/20 21:15 12/30/20 02:39 ACG Mt. Juliet, TN Volatile Organic Compounds (GC/MS) by Method 8260B WG1597130 1.31 12/23/20 21:15 12/24/20 21:56 DWR Mt. Juliet, TN Semi-Volatile Organic Compounds (GC) by Method 8015 WG1598769 1 12/29/20 23:13 12/30/20 20:56 TJD Mt. Juliet, TN Collected by Joe Tyler 12/16/20 10:40 12/19/20 10:45 Collected by Joe Tyler 12/16/20 10:40 12/19/20 10:45 | Method | Batch | Dilution | • | • | Analyst | Location |
| Wet Chemistry by Method 300.0 WG1598695 5 12/30/20 01:05 12/30/20 03:46 ELN Mt. Juliet, TN Volatile Organic Compounds (GC) by Method 8015D/GRO WG1598607 32.8 12/23/20 21:15 12/30/20 02:39 ACG Mt. Juliet, TN Volatile Organic Compounds (GC/MS) by Method 8260B WG1598769 1 12/23/20 21:15 12/24/20 21:56 DWR Mt. Juliet, TN Semi-Volatile Organic Compounds (GC) by Method 8015 WG1598769 1 12/29/20 23:13 12/30/20 20:56 TJD Mt. Juliet, TN BH-1 (9-10') L1299139-05 Solid Collected by Joe Tyler Collected date/time Received date/time Method Batch Dilution date/time Analysis Analysis Analyst Location date/time Total Solids by Method 2540 G-2011 WG1598923 1 12/30/20 13:57 12/30/20 14:08 KDW Mt. Juliet, TN Wet Chemistry by Method 300.0 WG1598695 5 12/30/20 01:05 12/30/20 03:56 ELN Mt. Juliet, TN Volatile Organic Compounds (GC) by Method 8015D/GRO WG1598607 45.8 12/23/20 21:15 12/30/20 03:00 <td< td=""><td>Total Solids by Method 2540 G-2011</td><td>WG1598923</td><td>1</td><td></td><td></td><td>KDW</td><td>Mt. Juliet TN</td></td<> | Total Solids by Method 2540 G-2011 | WG1598923 | 1 | | | KDW | Mt. Juliet TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO WG1598607 32.8 12/23/20 21:15 12/30/20 02:39 ACG Mt. Juliet, TN Volatile Organic Compounds (GC/MS) by Method 8260B WG1597130 1.31 12/23/20 21:15 12/24/20 21:56 DWR Mt. Juliet, TN Semi-Volatile Organic Compounds (GC) by Method 8015 WG1598769 1 12/29/20 23:13 12/30/20 20:56 TJD Mt. Juliet, TN BH-1 (9-10') L1299139-05 Solid Collected by Joe Tyler Collected date/time Received date/time Received date/time Method Batch Dilution date/time Preparation date/time Analysis Analyst Location date/time Total Solids by Method 2540 G-2011 WG1598923 1 12/30/20 13:57 12/30/20 14:08 KDW Mt. Juliet, TN Wet Chemistry by Method 300.0 WG1598695 5 12/30/20 01:05 12/30/20 03:56 ELN Mt. Juliet, TN Volatile Organic Compounds (GC) by Method 8015D/GRO WG1598607 45.8 12/23/20 21:15 12/30/20 03:00 ACG Mt. Juliet, TN | • | | | | | | |
| Volatile Organic Compounds (GC/MS) by Method 8260B WG1597130 1.31 12/23/20 21:15 12/24/20 21:56 DWR Mt. Juliet, TN Semi-Volatile Organic Compounds (GC) by Method 8015 WG1598769 1 12/29/20 23:13 12/30/20 20:56 TJD Mt. Juliet, TN BH-1 (9-10') L1299139-05 Solid Collected by Joe Tyler Collected date/time (12/16/20 10:40) 12/19/20 10:45 Method Batch Dilution date/time (date/time) Analysis (Analysis) Analysis (Analysis) Analysis (Analysis) Total Solids by Method 2540 G-2011 WG1598923 1 12/30/20 13:57 12/30/20 14:08 KDW (Mt. Juliet, TN) Wet Chemistry by Method 300.0 WG1598695 5 12/30/20 01:05 12/30/20 03:56 ELN (Mt. Juliet, TN) Volatile Organic Compounds (GC) by Method 8015D/GRO WG1598607 45.8 12/23/20 21:15 12/30/20 03:00 ACG (Mt. Juliet, TN) | , , | | | | | | |
| Semi-Volatile Organic Compounds (GC) by Method 8015 WG1598769 1 12/29/20 23:13 12/30/20 20:56 TJD Mt. Juliet, TN BH-1 (9-10') L1299139-05 Solid Collected by Joe Tyler 12/16/20 10:40 12/19/20 10:45 Method Batch Dilution date/time Preparation date/time date/time Analysis Analyst Location Total Solids by Method 2540 G-2011 WG1598923 1 12/30/20 13:57 12/30/20 14:08 KDW Mt. Juliet, TN Wet Chemistry by Method 300.0 WG1598695 5 12/30/20 01:05 12/30/20 03:56 ELN Mt. Juliet, TN Volatile Organic Compounds (GC) by Method 8015D/GRO WG1598607 45.8 12/23/20 21:15 12/30/20 03:00 ACG Mt. Juliet, TN | | | | | | | |
| BH-1 (9-10') L1299139-05 Solid Joe Tyler 12/16/20 10:40 12/19/20 10:45 Method Batch Dilution date/time Preparation date/time Analysis date/time Analysis Analysis KDW Mt. Juliet, TN Total Solids by Method 2540 G-2011 WG1598923 1 12/30/20 13:57 12/30/20 14:08 KDW Mt. Juliet, TN Wet Chemistry by Method 300.0 WG1598695 5 12/30/20 01:05 12/30/20 03:56 ELN Mt. Juliet, TN Volatile Organic Compounds (GC) by Method 8015D/GRO WG1598607 45.8 12/23/20 21:15 12/30/20 03:00 ACG Mt. Juliet, TN | | | | | | | |
| Method Batch Dilution date/time Preparation date/time Analysis Analyst Location Total Solids by Method 2540 G-2011 WG1598923 1 12/30/20 13:57 12/30/20 14:08 KDW Mt. Juliet, TN Wet Chemistry by Method 300.0 WG1598695 5 12/30/20 01:05 12/30/20 03:56 ELN Mt. Juliet, TN Volatile Organic Compounds (GC) by Method 8015D/GRO WG1598607 45.8 12/23/20 21:15 12/30/20 03:00 ACG Mt. Juliet, TN | | | | Collected by | Collected date/time | Received da | te/time |
| Total Solids by Method 2540 G-2011 WG1598923 1 12/30/20 13:57 12/30/20 14:08 KDW Mt. Juliet, TN Wet Chemistry by Method 300.0 WG1598695 5 12/30/20 01:05 12/30/20 03:56 ELN Mt. Juliet, TN Volatile Organic Compounds (GC) by Method 8015D/GRO WG1598607 45.8 12/23/20 21:15 12/30/20 03:00 ACG Mt. Juliet, TN | BH-1 (9-10') L1299139-05 Solid | | | Joe Tyler | 12/16/20 10:40 | 12/19/20 10:4 | 15 |
| Wet Chemistry by Method 300.0 WG1598695 5 12/30/20 01:05 12/30/20 03:56 ELN Mt. Juliet, TN Volatile Organic Compounds (GC) by Method 8015D/GRO WG1598607 45.8 12/23/20 21:15 12/30/20 03:00 ACG Mt. Juliet, TN | Method | Batch | Dilution | • | • | Analyst | Location |
| Wet Chemistry by Method 300.0 WG1598695 5 12/30/20 01:05 12/30/20 03:56 ELN Mt. Juliet, TN Volatile Organic Compounds (GC) by Method 8015D/GRO WG1598607 45.8 12/23/20 21:15 12/30/20 03:00 ACG Mt. Juliet, TN | Total Solids by Method 2540 G-2011 | WG1598923 | 1 | | | KDW | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO WG1598607 45.8 12/23/20 21:15 12/30/20 03:00 ACG Mt. Juliet, TN | • | | | | | | |
| | | | | | | | |
| | , , | | | | | | |



















WG1598769

12/29/20 23:13

12/30/20 21:09

TJD

| | JAIVII LL V | JOIVIII | | | | |
|---|-------------|----------|---------------------------|---------------------------------------|------------------------------|----------------|
| BH-1 (14-15') L1299139-06 Solid | | | Collected by Joe Tyler | Collected date/time 12/16/20 10:50 | Received da 12/19/20 10:4 | |
| Method | Batch | Dilution | Preparation | Analysis | Analyst | Location |
| | | | date/time | date/time | . , | |
| Total Solids by Method 2540 G-2011 | WG1598923 | 1 | 12/30/20 13:57 | 12/30/20 14:08 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1598695 | 10 | 12/30/20 01:05 | 12/30/20 04:05 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1598607 | 28 | 12/23/20 21:15 | 12/30/20 03:20 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1597130 | 1.12 | 12/23/20 21:15 | 12/24/20 22:34 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1598769 | 1 | 12/29/20 23:13 | 12/30/20 21:22 | TJD | Mt. Juliet, TN |
| | | | Collected by | Collected date/time | Received da | te/time |
| BH-1 (19-20') L1299139-07 Solid | | | Joe Tyler | 12/16/20 11:00 | 12/19/20 10:4 | 15 |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Total Solids by Method 2540 G-2011 | WG1598923 | 1 | 12/30/20 13:57 | 12/30/20 14:08 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1598695 | 10 | 12/30/20 01:05 | 12/30/20 04:15 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1598607 | 38.8 | 12/23/20 21:15 | 12/30/20 03:41 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1597130 | 1.55 | 12/23/20 21:15 | 12/24/20 22:53 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1598769 | 1 | 12/29/20 23:13 | 12/30/20 21:35 | TJD | Mt. Juliet, TN |
| | | | Collected by | Collected date/time | Received date/time | |
| BH-1 (24-25') L1299139-08 Solid | | | Joe Tyler | 12/16/20 11:20 | 12/19/20 10:4 | 15 |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Total Solids by Method 2540 G-2011 | WG1598923 | 1 | 12/30/20 13:57 | 12/30/20 14:08 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1598695 | 10 | 12/30/20 01:05 | 12/30/20 04:47 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1598607 | 38.5 | 12/23/20 21:15 | 12/30/20 04:02 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1597130 | 1.54 | 12/23/20 21:15 | 12/24/20 23:11 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1598769 | 1 | 12/29/20 23:13 | 12/30/20 20:17 | TJD | Mt. Juliet, TN |
| | | | Collected by | | Received date/time | |
| BH-1 (29-30') L1299139-09 Solid | | | Joe Tyler | 12/16/20 11:40 | 12/19/20 10:4 | 1 5 |
| Method | Batch | Dilution | Preparation | Analysis | Analyst | Location |
| T . 10 1:1 1 M . 1 . 10540 0 0044 | WOMEOOOOO | | date/time | date/time | WDW. | Maria Davida |
| Total Solids by Method 2540 G-2011 | WG1598923 | 1 | 12/30/20 13:57 | 12/30/20 14:08 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1598695 | 10 | 12/30/20 01:05 | 12/30/20 05:25 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1598607 | 35.3 | 12/23/20 21:15 | 12/30/20 04:22 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1597130 | 1.41 | 12/23/20 21:15 | 12/24/20 23:31 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1598769 | 1 | 12/29/20 23:13 | 12/30/20 20:30 | TJD | Mt. Juliet, TN |
| DLL4 (24 2EN 14200420 40 Calid | | | Collected by Joe Tyler | Collected date/time 12/16/20 12:00 | Received da 12/19/20 10:4 | |
| BH-1 (34-35') L1299139-10 Solid | | D.II .: | | | | |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Total Solids by Method 2540 G-2011 | WG1598923 | 1 | 12/30/20 13:57 | 12/30/20 14:08 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1598695 | 5 | 12/30/20 01:05 | 12/30/20 05:34 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1598607 | 29.5 | 12/23/20 21:15 | 12/30/20 04:43 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1597130 | 1.18 | 12/23/20 21:15 | 12/24/20 23:50 | DWR | Mt. Juliet, TN |
| Carri Valatila Oscaria Carra annala (CC) la Matla al 0015 | WC1E00770 | 4 | 12/20/20 22:07 | 12/21/20 02:10 | INI | NAC THE TAIL |



















WG1598770

1

12/29/20 23:07

12/31/20 03:18

JN

| | JAIVII LL V | JOIVIII | | | | |
|---|-------------|----------|---------------------------|---------------------------------------|------------------------------|----------------|
| BH-1 (39-40') L1299139-11 Solid | | | Collected by Joe Tyler | Collected date/time 12/16/20 12:20 | Received da 12/19/20 10:4 | |
| Method | Batch | Dilution | Preparation | Analysis | Analyst | Location |
| | | | date/time | date/time | | |
| Total Solids by Method 2540 G-2011 | WG1598923 | 1 | 12/30/20 13:57 | 12/30/20 14:08 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1598695 | 5 | 12/30/20 01:05 | 12/30/20 05:44 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1598607 | 40.5 | 12/23/20 21:15 | 12/30/20 05:04 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1597130 | 1.62 | 12/23/20 21:15 | 12/25/20 00:09 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1598770 | 1 | 12/29/20 23:07 | 12/31/20 03:30 | JN | Mt. Juliet, TN |
| | | | Collected by | Collected date/time | | |
| BH-1 (44-45') L1299139-12 Solid | | | Joe Tyler | 12/16/20 12:40 | 12/19/20 10:4 | 1 5 |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Total Solids by Method 2540 G-2011 | WG1598923 | 1 | 12/30/20 13:57 | 12/30/20 14:08 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1598695 | 1 | 12/30/20 01:05 | 12/30/20 05:53 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1598607 | 35 | 12/23/20 21:15 | 12/30/20 05:24 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1597130 | 1.4 | 12/23/20 21:15 | 12/25/20 00:28 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1598770 | 1 | 12/29/20 23:07 | 12/31/20 03:43 | JN | Mt. Juliet, TN |
| | | | Collected by | Collected date/time | Received da | te/time |
| BH-1 (49-50') L1299139-13 Solid | | | Joe Tyler | 12/16/20 13:00 | 12/19/20 10:4 | 45 |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Total Solids by Method 2540 G-2011 | WG1598923 | 1 | 12/30/20 13:57 | 12/30/20 14:08 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1598695 | 1 | 12/30/20 01:05 | 12/30/20 06:03 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1598607 | 29.5 | 12/23/20 21:15 | 12/30/20 05:45 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1597130 | 1.18 | 12/23/20 21:15 | 12/25/20 00:47 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1598770 | 1 | 12/29/20 23:07 | 12/31/20 03:05 | JN | Mt. Juliet, TN |
| | | | Collected by Joe Tyler | Collected date/time 12/16/20 13:10 | Received date/time | |
| BH-2 (0-1') L1299139-14 Solid | | | Jue Tylei | 12/10/20 13.10 | 12/19/20 10:4 | +5 |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Total Solids by Method 2540 G-2011 | WG1598924 | 1 | 12/30/20 13:18 | 12/30/20 13:50 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1598695 | 10 | 12/30/20 01:05 | 12/30/20 06:12 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1598607 | 32 | 12/23/20 21:15 | 12/30/20 06:06 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1597130 | 1.28 | 12/23/20 21:15 | 12/25/20 01:06 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1598770 | 1 | 12/29/20 23:07 | 12/31/20 04:21 | JN | Mt. Juliet, TN |
| | | | Collected by | Collected date/time | Received da | |
| BH-2 (2-3') L1299139-15 Solid | | | Joe Tyler | 12/16/20 13:20 | 12/19/20 10:4 | 15 |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Total Solids by Method 2540 G-2011 | WG1598924 | 1 | 12/30/20 13:18 | 12/30/20 13:50 | KDW | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1598695 | 5 | 12/30/20 01:05 | 12/30/20 06:41 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1598607 | 28.7 | 12/23/20 21:15 | 12/30/20 06:26 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1597130 | 1.15 | 12/23/20 21:15 | 12/25/20 01:25 | DWR | Mt. Juliet, TN |
| C: V-I-til- Oi- C | WC1E00770 | 4 | 12/20/20 22:07 | 12/21/20 01:40 | 18.1 | MA LUCIO TAL |



















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| | 0, 22 (| | | | | |
|---|-----------|-----------|---------------------------|---------------------------------------|------------------------------|----------------|
| BH-2 (24-25') L1299139-21 Solid | | | Collected by Joe Tyler | Collected date/time 12/16/20 14:20 | Received da 12/19/20 10:4 | |
| Method | Batch | Dilution | Preparation | Analysis | Analyst | Location |
| | Batan | 211411011 | date/time | date/time | , mary st | 200000 |
| Total Solids by Method 2540 G-2011 | WG1598205 | 1 | 12/29/20 12:52 | 12/29/20 12:52 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1598696 | 10 | 12/30/20 01:45 | 12/30/20 08:26 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1598684 | 27.5 | 12/16/20 14:20 | 12/30/20 00:50 | TPR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1597132 | 1.1 | 12/16/20 14:20 | 12/24/20 13:33 | AV | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1598123 | 1 | 12/28/20 23:26 | 12/29/20 21:05 | JN | Mt. Juliet, TN |
| | | | Collected by | Collected date/time | Received da | te/time |
| BH-2 (29-30') L1299139-22 Solid | | | Joe Tyler | 12/16/20 14:40 | 12/19/20 10:4 | 1 5 |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Total Solids by Method 2540 G-2011 | WG1598205 | 1 | 12/29/20 12:52 | 12/29/20 12:52 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1598696 | 5 | 12/30/20 01:45 | 12/30/20 08:45 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1598684 | 43.5 | 12/16/20 14:40 | 12/30/20 01:12 | TPR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1597132 | 1.74 | 12/16/20 14:40 | 12/24/20 14:38 | AV | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1598123 | 1 | 12/28/20 23:26 | 12/29/20 21:18 | JN | Mt. Juliet, TN |
| | | | Collected by | Collected date/time | Received da | te/time |
| BH-2 (34-35') L1299139-23 Solid | | | Joe Tyler | 12/16/20 15:00 | 12/19/20 10:4 | 15 |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Total Solids by Method 2540 G-2011 | WG1598205 | 1 | 12/29/20 12:52 | 12/29/20 12:52 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1598696 | 1 | 12/30/20 01:45 | 12/30/20 08:54 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1598684 | 26.3 | 12/16/20 15:00 | 12/30/20 01:34 | TPR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1597132 | 1.05 | 12/16/20 15:00 | 12/24/20 14:56 | AV | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1598123 | 1 | 12/28/20 23:26 | 12/29/20 21:32 | JN | Mt. Juliet, TN |
| | | | Collected by | Collected date/time | Received da | te/time |
| BH-2 (39-40') L1299139-24 Solid | | | Joe Tyler | 12/16/20 15:20 | 12/19/20 10:4 | 15 |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Total Solids by Method 2540 G-2011 | WG1598205 | 1 | 12/29/20 12:52 | 12/29/20 12:52 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1598696 | 1 | 12/30/20 01:45 | 12/30/20 09:04 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1598684 | 34.5 | 12/16/20 15:20 | 12/30/20 01:57 | TPR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1597132 | 1.38 | 12/16/20 15:20 | 12/24/20 15:15 | AV | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1598123 | 1 | 12/28/20 23:26 | 12/29/20 21:45 | JN | Mt. Juliet, TN |
| | | | Collected by | Collected date/time | Received da | te/time |
| BH-3 (0-1') L1299139-25 Solid | | | Joe Tyler | 12/16/20 16:00 | 12/19/20 10:4 | 15 |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Total Solids by Method 2540 G-2011 | WG1598205 | 1 | 12/29/20 12:52 | 12/29/20 12:52 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1598696 | 5 | 12/30/20 01:45 | 12/30/20 09:13 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1598684 | 27.3 | 12/16/20 16:00 | 12/30/20 02:19 | TPR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1597132 | 1.09 | 12/16/20 16:00 | 12/24/20 15:34 | AV | Mt. Juliet, TN |
| , , | | | | | | • |



















WG1598123

12/28/20 23:26

12/30/20 00:11

JN

Mt. Juliet, TN

Semi-Volatile Organic Compounds (GC) by Method 8015



| DIT 2 /2 21/ 11200120 26 Calid | | | Collected by Joe Tyler | Collected date/time 12/16/20 16:10 | e Received date/time 12/19/20 10:45 | |
|---|------------------------|----------|---------------------------|---------------------------------------|--|----------------|
| 3H-3 (2-3') L1299139-26 Solid | Dotob | Dilution | | | | |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| otal Solids by Method 2540 G-2011 | WG1598205 | 1 | 12/29/20 12:52 | 12/29/20 12:52 | KBC | Mt. Juliet, Ti |
| Vet Chemistry by Method 300.0 | WG1598696 | 5 | 12/30/20 01:45 | 12/30/20 09:23 | ELN | Mt. Juliet, Ti |
| platile Organic Compounds (GC) by Method 8015D/GRO | WG1598684 | 25.5 | 12/16/20 16:10 | 12/30/20 02:42 | TPR | Mt. Juliet, Ti |
| olatile Organic Compounds (GC/MS) by Method 8260B | WG1597132 | 1.02 | 12/16/20 16:10 | 12/24/20 15:53 | AV | Mt. Juliet, T |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1598123 | 5 | 12/28/20 23:26 | 12/30/20 01:31 | JN | Mt. Juliet, Ti |
| | | | Collected by | Collected date/time | Received date/time | |
| 3H-3 (4-5') L1299139-27 Solid | | | Joe Tyler | 12/16/20 16:20 | 12/19/20 10:45 | |
| Method | Batch | Dilution | Preparation | Analysis | Analyst | Location |
| | | | date/time | date/time | | |
| otal Solids by Method 2540 G-2011 | WG1598205 | 1 | 12/29/20 12:52 | 12/29/20 12:52 | KBC | Mt. Juliet, Ti |
| et Chemistry by Method 300.0 | WG1598696 | 10 | 12/30/20 01:45 | 12/30/20 09:32 | ELN | Mt. Juliet, T |
| platile Organic Compounds (GC) by Method 8015D/GRO | WG1598684 | 40.8 | 12/16/20 16:20 | 12/30/20 04:44 | TPR | Mt. Juliet, T |
| olatile Organic Compounds (GC/MS) by Method 8260B | WG1597132 | 1.63 | 12/16/20 16:20 | 12/24/20 16:12 | AV | Mt. Juliet, T |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1598123 | 1 | 12/28/20 23:26 | 12/29/20 21:58 | JN | Mt. Juliet, T |
| | | | Collected by | Collected date/time | Received date/time | |
| H-3 (6-7') L1299139-28 Solid | | | Joe Tyler | 12/16/20 16:30 | 12/19/20 10:4 | 15 |
| Method | Batch | Dilution | Preparation | Analysis | Analyst | Location |
| | | | date/time | date/time | | |
| tal Solids by Method 2540 G-2011 | WG1598205 | 1 | 12/29/20 12:52 | 12/29/20 12:52 | KBC | Mt. Juliet, T |
| et Chemistry by Method 300.0 | WG1598696 | 10 | 12/30/20 01:45 | 12/30/20 10:01 | ELN | Mt. Juliet, T |
| olatile Organic Compounds (GC) by Method 8015D/GRO | WG1598684 | 30.8 | 12/16/20 16:30 | 12/30/20 05:07 | TPR | Mt. Juliet, T |
| olatile Organic Compounds (GC/MS) by Method 8260B | WG1597132 | 1.23 | 12/16/20 16:30 | 12/24/20 16:31 | AV | Mt. Juliet, Ti |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1598123 | 1 | 12/28/20 23:26 | 12/29/20 22:12 | JN | Mt. Juliet, T |
| | | | Collected by | Collected date/time | Received date/time | |
| 3H-4 (0-1') L1299139-29 Solid | | | Joe Tyler | 12/16/20 16:40 | 12/19/20 10:45 | |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| otal Solids by Method 2540 G-2011 | WG1598206 | 1 | 12/29/20 14:18 | 12/29/20 14:26 | KBC | Mt. Juliet, Tl |
| et Chemistry by Method 300.0 | WG1598206 WG1598696 | 1 | 12/29/20 14.16 | 12/30/20 10:10 | ELN | Mt. Juliet, Ti |
| platile Organic Compounds (GC) by Method 8015D/GRO | WG1598684 | 26.8 | 12/30/20 01.43 | 12/30/20 05:29 | TPR | Mt. Juliet, Ti |
| platile Organic Compounds (GC/MS) by Method 8260B | WG1598084 WG1597132 | 1.07 | 12/16/20 16:40 | 12/24/20 16:49 | AV | Mt. Juliet, Ti |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1598123 | 10 | 12/28/20 23:26 | 12/30/20 01:44 | JN | Mt. Juliet, Ti |
| | | | 0.11 | 0.11 | D | |
| 8H-4 (2-3') L1299139-30 Solid | | | Collected by Joe Tyler | Collected date/time 12/16/20 16:50 | Received date/time 12/19/20 10:45 | |
| ethod | Batch | Dilution | Preparation | Analysis | Analyst | Location |
| | | | date/time | date/time | | |
| otal Solids by Method 2540 G-2011 | WG1598206 | 1 | 12/29/20 14:18 | 12/29/20 14:26 | KBC | Mt. Juliet, T |
| et Chemistry by Method 300.0 | WG1598696 | 1 | 12/30/20 01:45 | 12/30/20 10:20 | ELN | Mt. Juliet, T |
| platile Organic Compounds (GC) by Method 8015D/GRO | WG1598684 | 29.8 | 12/16/20 16:50 | 12/30/20 05:51 | TPR | Mt. Juliet, T |
| platile Organic Compounds (GC/MS) by Method 8260B | WG1597132 | 1.19 | 12/16/20 16:50 | 12/24/20 17:08 | AV | Mt. Juliet, Tl |
| emi-Volatile Organic Compounds (GC) by Method 8015 | WG1598123 | 5 | 12/28/20 23:26 | 12/30/20 01:17 | JN | Mt. Juliet, T |



















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|---|------------------------|----------|---------------------------|---------------------------------------|------------------------------|----------------|
| BH-4 (4-5') L1299139-31 Solid | | | Collected by Joe Tyler | Collected date/time 12/16/20 17:00 | Received da 12/19/20 10:4 | |
| Method | Batch | Dilution | Preparation | Analysis | Analyst | Location |
| | | | date/time | date/time | | |
| Total Solids by Method 2540 G-2011 | WG1598206 | 1 | 12/29/20 14:18 | 12/29/20 14:26 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1598696 | 1 | 12/30/20 01:45 | 12/30/20 10:48 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1598684 | 37.3 | 12/16/20 17:00 | 12/30/20 06:13 | TPR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1597132 | 1.49 | 12/16/20 17:00 | 12/24/20 17:27 | AV | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1598123 | 1 | 12/28/20 23:26 | 12/30/20 01:04 | JN | Mt. Juliet, TN |
| BH-4 (6-7') L1299139-32 Solid | | | Collected by Joe Tyler | Collected date/time 12/16/20 17:10 | Received da 12/19/20 10:4 | |
| Method | Batch | Dilution | Droporation | Analysis | Analyst | Location |
| metrod | DdlCII | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Total Solids by Method 2540 G-2011 | WG1598206 | 1 | 12/29/20 14:18 | 12/29/20 14:26 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1598200 WG1598696 | 1 | 12/30/20 01:45 | 12/30/20 10:58 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1598684 | 25 | 12/16/20 17:10 | 12/30/20 06:36 | TPR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1597132 | 1 | 12/16/20 17:10 | 12/24/20 17:45 | AV | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1598123 | 1 | 12/28/20 23:26 | 12/30/20 00:51 | JN | Mt. Juliet, TN |
| | | | Collected by | Collected date/time | Received da | te/time |
| BH-5 (0-1") L1299139-33 Solid | | | Joe Tyler | 12/16/20 17:20 | 12/19/20 10:4 | |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Total Solids by Method 2540 G-2011 | WG1598206 | 1 | 12/29/20 14:18 | 12/29/20 14:26 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1598696 | 1 | 12/30/20 01:45 | 12/30/20 11:07 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1598684 | 180 | 12/16/20 17:20 | 12/30/20 06:58 | TPR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1597581 | 7.19 | 12/16/20 17:20 | 12/26/20 11:31 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1598123 | 1 | 12/28/20 23:26 | 12/30/20 00:24 | JN | Mt. Juliet, TN |
| | | | Collected by | Collected date/time | | |
| BH-5 (2-3') L1299139-34 Solid | | | Joe Tyler | 12/16/20 17:30 | 12/19/20 10:4 | 1 0 |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Total Solids by Method 2540 G-2011 | WG1598206 | 1 | 12/29/20 14:18 | 12/29/20 14:26 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1598696 | 1 | 12/30/20 01:45 | 12/30/20 11:17 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1598684 | 25 | 12/16/20 17:30 | 12/30/20 07:21 | TPR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1597581 | 1 | 12/16/20 17:30 | 12/26/20 11:50 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1598123 | 1 | 12/28/20 23:26 | 12/29/20 22:25 | JN | Mt. Juliet, TN |
| DILLE (4.5) 14202422 25 0 " ' | | | Collected by Joe Tyler | Collected date/time 12/16/20 17:40 | Received da 12/19/20 10:4 | |
| BH-5 (4-5') L1299139-35 Solid | | | Jue Tylel | 12/10/20 1/.40 | 12/13/20 10.4 | TJ |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Total Solids by Method 2540 G-2011 | WG1598206 | 1 | 12/29/20 14:18 | 12/29/20 14:26 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1598696 | 1 | 12/30/20 01:45 | 12/30/20 11:26 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1598684 | 29 | 12/16/20 17:40 | 12/30/20 07:43 | TPR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1597581 | 1.16 | 12/16/20 17:40 | 12/26/20 12:09 | DWR | Mt. Juliet, TN |
| | | | | | | |

















Semi-Volatile Organic Compounds (GC) by Method 8015

WG1598123

12/28/20 23:26

12/29/20 22:38

JN

Mt. Juliet, TN

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|---|------------------------|----------|---------------------------|---------------------------------------|------------------------------|----------------|
| BH-5 (6-7') L1299139-36 Solid | | | Collected by Joe Tyler | Collected date/time 12/16/20 17:50 | Received da 12/19/20 10:4 | |
| Method | Batch | Dilution | Preparation | Analysis | Analyst | Location |
| | | | date/time | date/time | . , | |
| Total Solids by Method 2540 G-2011 | WG1598206 | 1 | 12/29/20 14:18 | 12/29/20 14:26 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1598696 | 1 | 12/30/20 01:45 | 12/30/20 11:58 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1598684 | 25 | 12/16/20 17:50 | 12/30/20 08:05 | TPR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1597581 | 1 | 12/16/20 17:50 | 12/26/20 12:28 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1598123 | 1 | 12/28/20 23:26 | 12/29/20 23:18 | JN | Mt. Juliet, TN |
| | | | Collected by | Collected date/time | | |
| BH-6 (0-1') L1299139-37 Solid | | | Joe Tyler | 12/16/20 18:00 | 12/19/20 10:4 | 1 5 |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Total Solids by Method 2540 G-2011 | WG1598206 | 1 | 12/29/20 14:18 | 12/29/20 14:26 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1598696 | 1 | 12/30/20 01:45 | 12/30/20 12:07 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1598684 | 44.8 | 12/16/20 18:00 | 12/30/20 08:27 | TPR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1597581 | 1.79 | 12/16/20 18:00 | 12/26/20 12:47 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1598123 | 1 | 12/28/20 23:26 | 12/30/20 00:38 | JN | Mt. Juliet, TN |
| | | | Collected by | Collected date/time | Received da | te/time |
| BH-6 (2-3') L1299139-38 Solid | | | Joe Tyler | 12/16/20 18:10 | 12/19/20 10:4 | 15 |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Total Solids by Method 2540 G-2011 | WG1598206 | 1 | 12/29/20 14:18 | 12/29/20 14:26 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1598696 | 1 | 12/30/20 01:45 | 12/30/20 12:16 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1598684 | 25 | 12/16/20 18:10 | 12/30/20 08:50 | TPR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1597581 | 1 | 12/16/20 18:10 | 12/26/20 13:06 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1598123 | 1 | 12/28/20 23:26 | 12/29/20 23:31 | JN | Mt. Juliet, TN |
| | | | Collected by | Collected date/time | Received da | te/time |
| BH-6 (4-5') L1299139-39 Solid | | | Joe Tyler | 12/16/20 18:20 | 12/19/20 10:4 | 1 5 |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Total Solids by Method 2540 G-2011 | WG1598207 | 1 | 12/29/20 14:04 | 12/29/20 14:14 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1598207 WG1598696 | 1 | 12/29/20 14:04 | 12/30/20 12:26 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1598691 | 34.3 | 12/30/20 01.43 | 12/30/20 07:08 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1598691 WG1597581 | 1.37 | 12/16/20 18:20 | 12/26/20 13:25 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1598123 | 1 | 12/28/20 23:26 | 12/29/20 23:44 | JN | Mt. Juliet, TN |
| | | | | | | |
| BH-6 (6-7') L1299139-40 Solid | | | Collected by Joe Tyler | Collected date/time 12/16/20 18:30 | Received da 12/19/20 10:4 | |
| · , | Datch | Dilution | | | Analyst | Location |
| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
| Total Solids by Method 2540 G-2011 | WG1598207 | 1 | 12/29/20 14:04 | 12/29/20 14:14 | KBC | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1598696 | 1 | 12/30/20 01:45 | 12/30/20 12:35 | ELN | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1598691 | 40 | 12/16/20 18:30 | 12/30/20 07:31 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1597581 | 1.6 | 12/16/20 18:30 | 12/26/20 13:44 | DWR | Mt. Juliet, TN |
| 0 11/1 11/1 0 1 0 1 1 (00) 1 11/1 1 100/5 | 11104500400 | | 10/00/00 00 00 | | | 1 4 1 1 1 Th |



















Semi-Volatile Organic Compounds (GC) by Method 8015

WG1598123

1

12/28/20 23:26

12/29/20 23:58

JN

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.

²Tc















Chris McCord

ONE LAB. NAT Page 76 of 175

Collected date/time: 12/16/20 10:00

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|------------------|
| Analyte | % | | | date / time | |
| Total Solids | 95.1 | | 1 | 12/31/2020 00:29 | <u>WG1598922</u> |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 3030 | | 96.7 | 210 | 10 | 12/30/2020 03:08 | WG1598695 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.799 | 3.68 | 33.8 | 12/30/2020 01:37 | WG1598607 |
| (S) a,a,a-Trifluorotoluene(FID) | 96.6 | | | 77.0-120 | | 12/30/2020 01:37 | WG1598607 |



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

| • | , | , , | • | | | | |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000687 | 0.00147 | 1.35 | 12/24/2020 20:59 | WG1597130 |
| Toluene | U | | 0.00192 | 0.00736 | 1.35 | 12/24/2020 20:59 | WG1597130 |
| Ethylbenzene | U | | 0.00108 | 0.00368 | 1.35 | 12/24/2020 20:59 | WG1597130 |
| Total Xylenes | 0.00139 | <u>J</u> | 0.00130 | 0.00956 | 1.35 | 12/24/2020 20:59 | WG1597130 |
| (S) Toluene-d8 | 95.4 | | | 75.0-131 | | 12/24/2020 20:59 | WG1597130 |
| (S) 4-Bromofluorobenzene | 99.2 | | | 67.0-138 | | 12/24/2020 20:59 | WG1597130 |
| (S) 1,2-Dichloroethane-d4 | 103 | | | 70.0-130 | | 12/24/2020 20:59 | WG1597130 |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 9.24 | | 1.69 | 4.21 | 1 | 12/30/2020 22:15 | WG1598769 |
| C28-C40 Oil Range | 24.7 | | 0.288 | 4.21 | 1 | 12/30/2020 22:15 | WG1598769 |
| (S) o-Terphenvl | 98.8 | | | 18.0-148 | | 12/30/2020 22:15 | WG1598769 |

ONE LAB. NAT Page 77. of 175

Collected date/time: 12/16/20 10:10

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | <u>Batch</u> |
|--------------|--------|-----------|----------|------------------|--------------|
| Analyte | % | | | date / time | |
| Total Solids | 92.4 | | 1 | 12/31/2020 00:29 | WG1598922 |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 725 | | 9.96 | 21.6 | 1 | 12/30/2020 03:27 | WG1598695 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.768 | 3.54 | 30.8 | 12/30/2020 01:57 | WG1598607 |
| (S) a,a,a-Trifluorotoluene(FID) | 96.6 | | | 77.0-120 | | 12/30/2020 01:57 | WG1598607 |



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

| • | 1 | , , | | | | | |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | 0.000989 | <u>J</u> | 0.000660 | 0.00141 | 1.23 | 12/24/2020 21:18 | WG1597130 |
| Toluene | 0.00240 | <u>J</u> | 0.00184 | 0.00707 | 1.23 | 12/24/2020 21:18 | WG1597130 |
| Ethylbenzene | U | | 0.00104 | 0.00354 | 1.23 | 12/24/2020 21:18 | WG1597130 |
| Total Xylenes | 0.00184 | <u>J</u> | 0.00124 | 0.00919 | 1.23 | 12/24/2020 21:18 | WG1597130 |
| (S) Toluene-d8 | 95.7 | | | 75.0-131 | | 12/24/2020 21:18 | WG1597130 |
| (S) 4-Bromofluorobenzene | 98.1 | | | 67.0-138 | | 12/24/2020 21:18 | WG1597130 |
| (S) 1,2-Dichloroethane-d4 | 102 | | | 70.0-130 | | 12/24/2020 21:18 | WG1597130 |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.74 | 4.33 | 1 | 12/31/2020 01:18 | WG1598769 |
| C28-C40 Oil Range | 1.10 | <u>J</u> | 0.297 | 4.33 | 1 | 12/31/2020 01:18 | WG1598769 |
| (S) o-Terphenyl | 98.2 | | | 18.0-148 | | 12/31/2020 01:18 | WG1598769 |

ONE LAB. NAT Page 78 of 175

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|------------------|
| Analyte | % | | | date / time | |
| Total Solids | 93.0 | | 1 | 12/31/2020 00:29 | <u>WG1598922</u> |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 861 | | 9.89 | 21.5 | 1 | 12/30/2020 03:37 | WG1598695 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 1.02 | 4.68 | 41.8 | 12/30/2020 02:18 | WG1598607 |
| (S) a,a,a-Trifluorotoluene(FID) | 96.3 | | | 77.0-120 | | 12/30/2020 02:18 | WG1598607 |



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

| <u> </u> | 1 \ | , , | | | | | |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000873 | 0.00187 | 1.67 | 12/24/2020 21:37 | WG1597130 |
| Toluene | U | | 0.00243 | 0.00935 | 1.67 | 12/24/2020 21:37 | WG1597130 |
| Ethylbenzene | U | | 0.00138 | 0.00468 | 1.67 | 12/24/2020 21:37 | WG1597130 |
| otal Xylenes | U | | 0.00165 | 0.0122 | 1.67 | 12/24/2020 21:37 | WG1597130 |
| (S) Toluene-d8 | 96.4 | | | 75.0-131 | | 12/24/2020 21:37 | WG1597130 |
| (S) 4-Bromofluorobenzene | 95.7 | | | 67.0-138 | | 12/24/2020 21:37 | WG1597130 |
| (S) 1,2-Dichloroethane-d4 | 97.8 | | | 70.0-130 | | 12/24/2020 21:37 | WG1597130 |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.73 | 4.30 | 1 | 12/30/2020 20:43 | WG1598769 |
| C28-C40 Oil Range | U | | 0.295 | 4.30 | 1 | 12/30/2020 20:43 | WG1598769 |
| (S) o-Terphenvl | 108 | | | 18.0-148 | | 12/30/2020 20:43 | WG1598769 |

ONE LAB. NATRAGE 79 of 175

Collected date/time: 12/16/20 10:30

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | <u>Batch</u> |
|--------------|--------|-----------|----------|------------------|--------------|
| Analyte | % | | | date / time | |
| Total Solids | 93.3 | | 1 | 12/30/2020 14:08 | WG1598923 |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 1100 | | 49.3 | 107 | 5 | 12/30/2020 03:46 | WG1598695 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.803 | 3.70 | 32.8 | 12/30/2020 02:39 | WG1598607 |
| (S) a,a,a-Trifluorotoluene(FID) | 96.1 | | | 77.0-120 | | 12/30/2020 02:39 | WG1598607 |



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

| 3 | | (/ | , | | | | |
|---------------------------|--------------|-----------|-----------|-----------------|----------|------------------|-----------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000690 | 0.00148 | 1.31 | 12/24/2020 21:56 | WG1597130 |
| Toluene | U | | 0.00192 | 0.00739 | 1.31 | 12/24/2020 21:56 | WG1597130 |
| Ethylbenzene | U | | 0.00109 | 0.00370 | 1.31 | 12/24/2020 21:56 | WG1597130 |
| Total Xylenes | 0.00156 | <u>J</u> | 0.00130 | 0.00961 | 1.31 | 12/24/2020 21:56 | WG1597130 |
| (S) Toluene-d8 | 96.6 | | | <i>75.0-131</i> | | 12/24/2020 21:56 | WG1597130 |
| (S) 4-Bromofluorobenzene | 96.4 | | | 67.0-138 | | 12/24/2020 21:56 | WG1597130 |
| (S) 1,2-Dichloroethane-d4 | 96.4 | | | 70.0-130 | | 12/24/2020 21:56 | WG1597130 |

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| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.73 | 4.29 | 1 | 12/30/2020 20:56 | WG1598769 |
| C28-C40 Oil Range | U | | 0.294 | 4.29 | 1 | 12/30/2020 20:56 | WG1598769 |
| (S) o-Terphenyl | 114 | | | 18.0-148 | | 12/30/2020 20:56 | WG1598769 |

ONE LAB. NATRAGE 80 of 15

Collected date/time: 12/16/20 10:40

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|------------------|
| Analyte | % | | | date / time | |
| Total Solids | 93.7 | | 1 | 12/30/2020 14:08 | <u>WG1598923</u> |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 1760 | | 49.1 | 107 | 5 | 12/30/2020 03:56 | WG1598695 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 1.10 | 5.06 | 45.8 | 12/30/2020 03:00 | WG1598607 |
| (S) a,a,a-Trifluorotoluene(FID) | 96.4 | | | 77.0-120 | | 12/30/2020 03:00 | WG1598607 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Patch |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| | Result (uly) | Qualifier | MDL (uly) | KDL (uly) | Dilution | Allalysis | Batch |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000944 | 0.00202 | 1.83 | 12/24/2020 22:14 | WG1597130 |
| Toluene | U | | 0.00263 | 0.0101 | 1.83 | 12/24/2020 22:14 | WG1597130 |
| Ethylbenzene | U | | 0.00149 | 0.00506 | 1.83 | 12/24/2020 22:14 | WG1597130 |
| Total Xylenes | U | | 0.00178 | 0.0131 | 1.83 | 12/24/2020 22:14 | WG1597130 |
| (S) Toluene-d8 | 97.2 | | | 75.0-131 | | 12/24/2020 22:14 | WG1597130 |
| (S) 4-Bromofluorobenzene | 99.5 | | | 67.0-138 | | 12/24/2020 22:14 | WG1597130 |
| (S) 1,2-Dichloroethane-d4 | 98.8 | | | 70.0-130 | | 12/24/2020 22:14 | WG1597130 |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.72 | 4.27 | 1 | 12/30/2020 21:09 | WG1598769 |
| C28-C40 Oil Range | U | | 0.293 | 4.27 | 1 | 12/30/2020 21:09 | WG1598769 |
| (S) o-Terphenvl | 104 | | | 18.0-148 | | 12/30/2020 21:09 | WG1598769 |

ONE LAB. NAT Page 81 of 15

Collected date/time: 12/16/20 10:50

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|------------------|
| Analyte | % | | | date / time | |
| Total Solids | 92.4 | | 1 | 12/30/2020 14:08 | <u>WG1598923</u> |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 2580 | | 99.5 | 216 | 10 | 12/30/2020 04:05 | WG1598695 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.702 | 3.23 | 28 | 12/30/2020 03:20 | WG1598607 |
| (S) a,a,a-Trifluorotoluene(FID) | 96.3 | | | 77.0-120 | | 12/30/2020 03:20 | WG1598607 |



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

| _ | • | | | | | | |
|---------------------------|--------------|-----------|-----------|-----------------|----------|------------------|-----------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000604 | 0.00129 | 1.12 | 12/24/2020 22:34 | WG1597130 |
| Toluene | U | | 0.00169 | 0.00647 | 1.12 | 12/24/2020 22:34 | WG1597130 |
| Ethylbenzene | U | | 0.000953 | 0.00323 | 1.12 | 12/24/2020 22:34 | WG1597130 |
| Total Xylenes | U | | 0.00114 | 0.00841 | 1.12 | 12/24/2020 22:34 | WG1597130 |
| (S) Toluene-d8 | 97.6 | | | <i>75.0-131</i> | | 12/24/2020 22:34 | WG1597130 |
| (S) 4-Bromofluorobenzene | 98.6 | | | 67.0-138 | | 12/24/2020 22:34 | WG1597130 |
| (S) 1,2-Dichloroethane-d4 | 101 | | | 70.0-130 | | 12/24/2020 22:34 | WG1597130 |

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| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.74 | 4.33 | 1 | 12/30/2020 21:22 | WG1598769 |
| C28-C40 Oil Range | U | | 0.296 | 4.33 | 1 | 12/30/2020 21:22 | WG1598769 |
| (S) o-Terphenyl | 104 | | | 18.0-148 | | 12/30/2020 21:22 | WG1598769 |

ONE LAB. NAT Page 82 of 15

Collected date/time: 12/16/20 11:00

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|------------------|
| Analyte | % | | | date / time | |
| Total Solids | 92.4 | | 1 | 12/30/2020 14:08 | <u>WG1598923</u> |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 3590 | | 99.6 | 216 | 10 | 12/30/2020 04:15 | WG1598695 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.956 | 4.41 | 38.8 | 12/30/2020 03:41 | WG1598607 |
| (S) a,a,a-Trifluorotoluene(FID) | 95.6 | | | 77.0-120 | | 12/30/2020 03:41 | WG1598607 |



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

| | 1 (| , , | | | | | |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| enzene | U | | 0.000822 | 0.00176 | 1.55 | 12/24/2020 22:53 | WG1597130 |
| oluene | U | | 0.00228 | 0.00880 | 1.55 | 12/24/2020 22:53 | WG1597130 |
| hylbenzene | U | | 0.00129 | 0.00441 | 1.55 | 12/24/2020 22:53 | WG1597130 |
| tal Xylenes | U | | 0.00154 | 0.0115 | 1.55 | 12/24/2020 22:53 | WG1597130 |
| (S) Toluene-d8 | 97.0 | | | 75.0-131 | | 12/24/2020 22:53 | WG1597130 |
| (S) 4-Bromofluorobenzene | 94.8 | | | 67.0-138 | | 12/24/2020 22:53 | WG1597130 |
| (S) 1,2-Dichloroethane-d4 | 101 | | | 70.0-130 | | 12/24/2020 22:53 | WG1597130 |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.74 | 4.33 | 1 | 12/30/2020 21:35 | WG1598769 |
| C28-C40 Oil Range | U | | 0.297 | 4.33 | 1 | 12/30/2020 21:35 | WG1598769 |
| (S) o-Terphenyl | 96.1 | | | 18.0-148 | | 12/30/2020 21:35 | WG1598769 |

ONE LAB. NATRAGE 83 of \$15

Collected date/time: 12/16/20 11:20

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|------------------|
| Analyte | % | | | date / time | |
| Total Solids | 88.9 | | 1 | 12/30/2020 14:08 | <u>WG1598923</u> |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 4010 | | 103 | 225 | 10 | 12/30/2020 04:47 | WG1598695 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 1.01 | 4.64 | 38.5 | 12/30/2020 04:02 | WG1598607 |
| (S) a,a,a-Trifluorotoluene(FID) | 96.1 | | | 77.0-120 | | 12/30/2020 04:02 | WG1598607 |



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

| | • | | * | | | | |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000867 | 0.00186 | 1.54 | 12/24/2020 23:11 | WG1597130 |
| Toluene | U | | 0.00241 | 0.00928 | 1.54 | 12/24/2020 23:11 | WG1597130 |
| Ethylbenzene | U | | 0.00136 | 0.00464 | 1.54 | 12/24/2020 23:11 | WG1597130 |
| Total Xylenes | U | | 0.00164 | 0.0121 | 1.54 | 12/24/2020 23:11 | WG1597130 |
| (S) Toluene-d8 | 96.1 | | | 75.0-131 | | 12/24/2020 23:11 | WG1597130 |
| (S) 4-Bromofluorobenzene | 95.8 | | | 67.0-138 | | 12/24/2020 23:11 | WG1597130 |
| (S) 1,2-Dichloroethane-d4 | 99.0 | | | 70.0-130 | | 12/24/2020 23:11 | WG1597130 |

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| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.81 | 4.50 | 1 | 12/30/2020 20:17 | WG1598769 |
| C28-C40 Oil Range | U | | 0.308 | 4.50 | 1 | 12/30/2020 20:17 | WG1598769 |
| (S) o-Terphenyl | 89.2 | | | 18.0-148 | | 12/30/2020 20:17 | WG1598769 |

ONE LAB. NATRAGE 84 of \$15

Collected date/time: 12/16/20 11:40

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|------------------|
| Analyte | % | | | date / time | |
| Total Solids | 87.7 | | 1 | 12/30/2020 14:08 | <u>WG1598923</u> |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 3220 | | 105 | 228 | 10 | 12/30/2020 05:25 | WG1598695 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|------------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.949 | 4.37 | 35.3 | 12/30/2020 04:22 | WG1598607 |
| (S) a,a,a-Trifluorotoluene(FID) | 95.0 | | | 77.0-120 | | 12/30/2020 04:22 | <u>WG1598607</u> |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000815 | 0.00175 | 1.41 | 12/24/2020 23:31 | WG1597130 |
| Toluene | 0.00227 | <u>J</u> | 0.00227 | 0.00874 | 1.41 | 12/24/2020 23:31 | WG1597130 |
| Ethylbenzene | U | | 0.00129 | 0.00437 | 1.41 | 12/24/2020 23:31 | WG1597130 |
| Total Xylenes | U | | 0.00154 | 0.0114 | 1.41 | 12/24/2020 23:31 | WG1597130 |
| (S) Toluene-d8 | 97.4 | | | 75.0-131 | | 12/24/2020 23:31 | WG1597130 |
| (S) 4-Bromofluorobenzene | 97.4 | | | 67.0-138 | | 12/24/2020 23:31 | WG1597130 |
| (S) 1,2-Dichloroethane-d4 | 103 | | | 70.0-130 | | 12/24/2020 23:31 | WG1597130 |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.84 | 4.56 | 1 | 12/30/2020 20:30 | WG1598769 |
| C28-C40 Oil Range | 0.881 | <u>J</u> | 0.312 | 4.56 | 1 | 12/30/2020 20:30 | WG1598769 |
| (S) o-Terphenyl | 111 | | | 18.0-148 | | 12/30/2020 20:30 | WG1598769 |

ONE LAB. NAT Page 85 of \$15

Collected date/time: 12/16/20 12:00

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|------------------|
| Analyte | % | | | date / time | |
| Total Solids | 85.6 | | 1 | 12/30/2020 14:08 | <u>WG1598923</u> |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 1900 | | 53.8 | 117 | 5 | 12/30/2020 05:34 | WG1598695 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.840 | 3.87 | 29.5 | 12/30/2020 04:43 | WG1598607 |
| (S) a,a,a-Trifluorotoluene(FID) | 96.5 | | | 77.0-120 | | 12/30/2020 04:43 | WG1598607 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000723 | 0.00155 | 1.18 | 12/24/2020 23:50 | WG1597130 |
| Toluene | U | | 0.00201 | 0.00774 | 1.18 | 12/24/2020 23:50 | WG1597130 |
| Ethylbenzene | U | | 0.00114 | 0.00387 | 1.18 | 12/24/2020 23:50 | WG1597130 |
| Total Xylenes | U | | 0.00136 | 0.0101 | 1.18 | 12/24/2020 23:50 | WG1597130 |
| (S) Toluene-d8 | 97.7 | | | 75.0-131 | | 12/24/2020 23:50 | WG1597130 |
| (S) 4-Bromofluorobenzene | 96.0 | | | 67.0-138 | | 12/24/2020 23:50 | WG1597130 |
| (S) 1,2-Dichloroethane-d4 | 101 | | | 70.0-130 | | 12/24/2020 23:50 | WG1597130 |

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| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.88 | 4.67 | 1 | 12/31/2020 03:18 | WG1598770 |
| C28-C40 Oil Range | U | | 0.320 | 4.67 | 1 | 12/31/2020 03:18 | WG1598770 |
| (S) o-Terphenyl | 53.4 | | | 18.0-148 | | 12/31/2020 03:18 | WG1598770 |

ONE LAB. NAT Page 86 of \$15

Collected date/time: 12/16/20 12:20

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | <u>Batch</u> |
|--------------|--------|-----------|----------|------------------|--------------|
| Analyte | % | | | date / time | |
| Total Solids | 84.9 | | 1 | 12/30/2020 14:08 | WG1598923 |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 976 | | 54.2 | 118 | 5 | 12/30/2020 05:44 | WG1598695 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 1.13 | 5.21 | 40.5 | 12/30/2020 05:04 | WG1598607 |
| (S) a,a,a-Trifluorotoluene(FID) | 96.9 | | | 77.0-120 | | 12/30/2020 05:04 | WG1598607 |



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

| | ' | , , , | | | | | |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000974 | 0.00209 | 1.62 | 12/25/2020 00:09 | WG1597130 |
| Toluene | U | | 0.00272 | 0.0104 | 1.62 | 12/25/2020 00:09 | WG1597130 |
| Ethylbenzene | U | | 0.00153 | 0.00521 | 1.62 | 12/25/2020 00:09 | WG1597130 |
| Total Xylenes | U | | 0.00184 | 0.0135 | 1.62 | 12/25/2020 00:09 | WG1597130 |
| (S) Toluene-d8 | 95.8 | | | 75.0-131 | | 12/25/2020 00:09 | WG1597130 |
| (S) 4-Bromofluorobenzene | 100 | | | 67.0-138 | | 12/25/2020 00:09 | WG1597130 |
| (S) 1,2-Dichloroethane-d4 | 103 | | | 70.0-130 | | 12/25/2020 00:09 | WG1597130 |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.90 | 4.71 | 1 | 12/31/2020 03:30 | WG1598770 |
| C28-C40 Oil Range | U | | 0.323 | 4.71 | 1 | 12/31/2020 03:30 | WG1598770 |
| (S) o-Terphenyl | 59.0 | | | 18.0-148 | | 12/31/2020 03:30 | WG1598770 |

ONE LAB. NATRAGE 87. of 15

Collected date/time: 12/16/20 12:40

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | <u>Batch</u> |
|--------------|--------|-----------|----------|------------------|--------------|
| Analyte | % | | | date / time | |
| Total Solids | 86.6 | | 1 | 12/30/2020 14:08 | WG1598923 |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 248 | | 10.6 | 23.1 | 1 | 12/30/2020 05:53 | WG1598695 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.962 | 4.43 | 35 | 12/30/2020 05:24 | WG1598607 |
| (S) a,a,a-Trifluorotoluene(FID) | 95.4 | | | 77.0-120 | | 12/30/2020 05:24 | WG1598607 |



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

| • | ' | , , , , | • | | | | |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000828 | 0.00177 | 1.4 | 12/25/2020 00:28 | WG1597130 |
| Toluene | U | | 0.00230 | 0.00886 | 1.4 | 12/25/2020 00:28 | WG1597130 |
| Ethylbenzene | U | | 0.00130 | 0.00443 | 1.4 | 12/25/2020 00:28 | WG1597130 |
| Total Xylenes | U | | 0.00156 | 0.0115 | 1.4 | 12/25/2020 00:28 | WG1597130 |
| (S) Toluene-d8 | 97.4 | | | 75.0-131 | | 12/25/2020 00:28 | WG1597130 |
| (S) 4-Bromofluorobenzene | 97.9 | | | 67.0-138 | | 12/25/2020 00:28 | WG1597130 |
| (S) 1,2-Dichloroethane-d4 | 104 | | | 70.0-130 | | 12/25/2020 00:28 | WG1597130 |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.86 | 4.62 | 1 | 12/31/2020 03:43 | WG1598770 |
| C28-C40 Oil Range | U | | 0.317 | 4.62 | 1 | 12/31/2020 03:43 | WG1598770 |
| (S) o-Terphenyl | 60.2 | | | 18.0-148 | | 12/31/2020 03:43 | WG1598770 |

ONE LAB. NAT Page 88 of \$15

Collected date/time: 12/16/20 13:00

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|------------------|
| Analyte | % | | | date / time | |
| Total Solids | 85.2 | | 1 | 12/30/2020 14:08 | <u>WG1598923</u> |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 200 | | 10.8 | 23.5 | 1 | 12/30/2020 06:03 | WG1598695 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.845 | 3.90 | 29.5 | 12/30/2020 05:45 | WG1598607 |
| (S) a,a,a-Trifluorotoluene(FID) | 95.6 | | | 77.0-120 | | 12/30/2020 05:45 | WG1598607 |



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

| • | | , , | • | | | | |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000728 | 0.00156 | 1.18 | 12/25/2020 00:47 | WG1597130 |
| Toluene | U | | 0.00202 | 0.00779 | 1.18 | 12/25/2020 00:47 | WG1597130 |
| Ethylbenzene | U | | 0.00115 | 0.00390 | 1.18 | 12/25/2020 00:47 | WG1597130 |
| Total Xylenes | U | | 0.00137 | 0.0101 | 1.18 | 12/25/2020 00:47 | WG1597130 |
| (S) Toluene-d8 | 98.9 | | | 75.0-131 | | 12/25/2020 00:47 | WG1597130 |
| (S) 4-Bromofluorobenzene | 96.9 | | | 67.0-138 | | 12/25/2020 00:47 | WG1597130 |
| (S) 1,2-Dichloroethane-d4 | 102 | | | 70.0-130 | | 12/25/2020 00:47 | WG1597130 |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.89 | 4.70 | 1 | 12/31/2020 03:05 | WG1598770 |
| C28-C40 Oil Range | U | | 0.322 | 4.70 | 1 | 12/31/2020 03:05 | WG1598770 |
| (S) o-Terphenyl | 63.2 | | | 18.0-148 | | 12/31/2020 03:05 | WG1598770 |



Collected date/time: 12/16/20 13:10

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | <u>Batch</u> |
|--------------|--------|-----------|----------|------------------|--------------|
| Analyte | % | | | date / time | |
| Total Solids | 96.0 | | 1 | 12/30/2020 13:50 | WG1598924 |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 3240 | | 95.8 | 208 | 10 | 12/30/2020 06:12 | WG1598695 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.745 | 3.44 | 32 | 12/30/2020 06:06 | WG1598607 |
| (S) a,a,a-Trifluorotoluene(FID) | 94.7 | | | 77.0-120 | | 12/30/2020 06:06 | WG1598607 |



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

| | 1 \ | | ' | | | | |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000642 | 0.00137 | 1.28 | 12/25/2020 01:06 | WG1597130 |
| Toluene | U | | 0.00178 | 0.00687 | 1.28 | 12/25/2020 01:06 | WG1597130 |
| Ethylbenzene | U | | 0.00101 | 0.00344 | 1.28 | 12/25/2020 01:06 | WG1597130 |
| Total Xylenes | U | | 0.00121 | 0.00893 | 1.28 | 12/25/2020 01:06 | WG1597130 |
| (S) Toluene-d8 | 96.0 | | | 75.0-131 | | 12/25/2020 01:06 | WG1597130 |
| (S) 4-Bromofluorobenzene | 99.1 | | | 67.0-138 | | 12/25/2020 01:06 | WG1597130 |
| (S) 1,2-Dichloroethane-d4 | 99.1 | | | 70.0-130 | | 12/25/2020 01:06 | WG1597130 |

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| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 4.06 | <u>J</u> | 1.68 | 4.17 | 1 | 12/31/2020 04:21 | WG1598770 |
| C28-C40 Oil Range | 17.3 | | 0.285 | 4.17 | 1 | 12/31/2020 04:21 | WG1598770 |
| (S) o-Terphenyl | 44.1 | | | 18.0-148 | | 12/31/2020 04:21 | WG1598770 |



Collected date/time: 12/16/20 13:20

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|-----------|
| Analyte | % | | | date / time | |
| Total Solids | 96.1 | | 1 | 12/30/2020 13:50 | WG1598924 |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 843 | | 47.8 | 104 | 5 | 12/30/2020 06:41 | WG1598695 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.670 | 3.09 | 28.7 | 12/30/2020 06:26 | WG1598607 |
| (S) a,a,a-Trifluorotoluene(FID) | 95.6 | | | 77.0-120 | | 12/30/2020 06:26 | WG1598607 |



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

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|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000577 | 0.00124 | 1.15 | 12/25/2020 01:25 | WG1597130 |
| Toluene | U | | 0.00160 | 0.00618 | 1.15 | 12/25/2020 01:25 | WG1597130 |
| Ethylbenzene | U | | 0.000912 | 0.00310 | 1.15 | 12/25/2020 01:25 | WG1597130 |
| Total Xylenes | U | | 0.00109 | 0.00804 | 1.15 | 12/25/2020 01:25 | WG1597130 |
| (S) Toluene-d8 | 97.4 | | | 75.0-131 | | 12/25/2020 01:25 | WG1597130 |
| (S) 4-Bromofluorobenzene | 95.3 | | | 67.0-138 | | 12/25/2020 01:25 | WG1597130 |
| (S) 1,2-Dichloroethane-d4 | 99.4 | | | 70.0-130 | | 12/25/2020 01:25 | WG1597130 |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.67 | 4.16 | 1 | 12/31/2020 01:49 | WG1598770 |
| C28-C40 Oil Range | U | | 0.285 | 4.16 | 1 | 12/31/2020 01:49 | WG1598770 |
| (S) o-Terphenyl | 64.8 | | | 18.0-148 | | 12/31/2020 01:49 | WG1598770 |

ONE LAB. NATRAGE 91 of 15

Collected date/time: 12/16/20 13:30

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | <u>Batch</u> |
|--------------|--------|-----------|----------|------------------|--------------|
| Analyte | % | | | date / time | |
| Total Solids | 94.8 | | 1 | 12/30/2020 13:50 | WG1598924 |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 622 | | 9.71 | 21.1 | 1 | 12/30/2020 06:50 | WG1598695 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.762 | 3.51 | 32 | 12/30/2020 06:47 | WG1598607 |
| (S) a,a,a-Trifluorotoluene(FID) | 95.9 | | | 77.0-120 | | 12/30/2020 06:47 | WG1598607 |



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

| | - 1 | (/ | , | | | | |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | 0.000949 | <u>J</u> | 0.000657 | 0.00141 | 1.28 | 12/25/2020 01:44 | WG1597130 |
| Toluene | 0.00288 | <u>J</u> | 0.00182 | 0.00703 | 1.28 | 12/25/2020 01:44 | WG1597130 |
| Ethylbenzene | U | | 0.00104 | 0.00351 | 1.28 | 12/25/2020 01:44 | WG1597130 |
| Total Xylenes | 0.00228 | <u>J</u> | 0.00124 | 0.00914 | 1.28 | 12/25/2020 01:44 | WG1597130 |
| (S) Toluene-d8 | 96.1 | | | 75.0-131 | | 12/25/2020 01:44 | WG1597130 |
| (S) 4-Bromofluorobenzene | 98.6 | | | 67.0-138 | | 12/25/2020 01:44 | WG1597130 |
| (S) 1,2-Dichloroethane-d4 | 99.5 | | | 70.0-130 | | 12/25/2020 01:44 | WG1597130 |

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| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.70 | 4.22 | 1 | 12/31/2020 02:02 | WG1598770 |
| C28-C40 Oil Range | 0.416 | <u>J</u> | 0.289 | 4.22 | 1 | 12/31/2020 02:02 | WG1598770 |
| (S) o-Terphenyl | 66.2 | | | 18.0-148 | | 12/31/2020 02:02 | WG1598770 |

ONE LAB. NATRAGE 92 of 15

Collected date/time: 12/16/20 13:40

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | <u>Batch</u> |
|--------------|--------|-----------|----------|------------------|--------------|
| Analyte | % | | | date / time | |
| Total Solids | 93.2 | | 1 | 12/30/2020 13:50 | WG1598924 |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 315 | | 9.87 | 21.5 | 1 | 12/30/2020 07:00 | WG1598695 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.680 | 3.13 | 27.5 | 12/30/2020 07:08 | WG1598607 |
| (S) a,a,a-Trifluorotoluene(FID) | 96.5 | | | 77.0-120 | | 12/30/2020 07:08 | WG1598607 |



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

| | ' | , , , | <u> </u> | | | | |
|---------------------------|--------------|-----------|-----------|-----------------|----------|------------------|-----------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000586 | 0.00125 | 1.1 | 12/24/2020 12:18 | WG1597132 |
| Toluene | 0.00185 | J | 0.00163 | 0.00627 | 1.1 | 12/24/2020 12:18 | WG1597132 |
| Ethylbenzene | U | | 0.000924 | 0.00313 | 1.1 | 12/24/2020 12:18 | WG1597132 |
| Total Xylenes | 0.00125 | <u>J</u> | 0.00110 | 0.00815 | 1.1 | 12/24/2020 12:18 | WG1597132 |
| (S) Toluene-d8 | 103 | | | <i>75.0-131</i> | | 12/24/2020 12:18 | WG1597132 |
| (S) 4-Bromofluorobenzene | 99.2 | | | 67.0-138 | | 12/24/2020 12:18 | WG1597132 |
| (S) 1,2-Dichloroethane-d4 | 91.4 | | | 70.0-130 | | 12/24/2020 12:18 | WG1597132 |

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| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.73 | 4.29 | 1 | 12/31/2020 02:14 | WG1598770 |
| C28-C40 Oil Range | U | | 0.294 | 4.29 | 1 | 12/31/2020 02:14 | WG1598770 |
| (S) o-Terphenyl | 68.4 | | | 18.0-148 | | 12/31/2020 02:14 | WG1598770 |

ONE LAB. NATRAGE 93 of \$15

Collected date/time: 12/16/20 13:50

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | <u>Batch</u> |
|--------------|--------|-----------|----------|------------------|--------------|
| Analyte | % | | | date / time | |
| Total Solids | 95.6 | | 1 | 12/30/2020 13:50 | WG1598924 |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 512 | | 9.63 | 20.9 | 1 | 12/30/2020 07:09 | WG1598695 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.861 | 3.97 | 36.8 | 12/30/2020 07:28 | WG1598607 |
| (S) a,a,a-Trifluorotoluene(FID) | 96.1 | | | 77.0-120 | | 12/30/2020 07:28 | WG1598607 |



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

| 3 | - 1 | (, - , | , | | | | |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000739 | 0.00158 | 1.47 | 12/24/2020 12:37 | WG1597132 |
| Toluene | U | | 0.00206 | 0.00792 | 1.47 | 12/24/2020 12:37 | WG1597132 |
| Ethylbenzene | U | | 0.00116 | 0.00397 | 1.47 | 12/24/2020 12:37 | WG1597132 |
| Total Xylenes | U | | 0.00139 | 0.0103 | 1.47 | 12/24/2020 12:37 | WG1597132 |
| (S) Toluene-d8 | 102 | | | 75.0-131 | | 12/24/2020 12:37 | WG1597132 |
| (S) 4-Bromofluorobenzene | 95.5 | | | 67.0-138 | | 12/24/2020 12:37 | WG1597132 |
| (S) 1,2-Dichloroethane-d4 | 93.6 | | | 70.0-130 | | 12/24/2020 12:37 | WG1597132 |

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| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.68 | 4.19 | 1 | 12/31/2020 01:11 | WG1598770 |
| C28-C40 Oil Range | U | | 0.287 | 4.19 | 1 | 12/31/2020 01:11 | WG1598770 |
| (S) o-Terphenyl | 65.6 | | | 18.0-148 | | 12/31/2020 01:11 | WG1598770 |

ONE LAB. NATRAGE 94 of 15

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | <u>Batch</u> |
|--------------|--------|-----------|----------|------------------|--------------|
| Analyte | % | | | date / time | |
| Total Solids | 95.0 | | 1 | 12/30/2020 13:50 | WG1598924 |

Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 518 | | 9.69 | 21.1 | 1 | 12/30/2020 07:19 | WG1598695 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.703 | 3.24 | 29.5 | 12/30/2020 00:05 | WG1598684 |
| (S) a,a,a-Trifluorotoluene(FID) | 100 | | | 77.0-120 | | 12/30/2020 00:05 | WG1598684 |



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

| 3 | - 1 | (/ | , | | | | |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000605 | 0.00130 | 1.18 | 12/24/2020 12:55 | WG1597132 |
| Toluene | U | | 0.00168 | 0.00648 | 1.18 | 12/24/2020 12:55 | WG1597132 |
| Ethylbenzene | U | | 0.000955 | 0.00324 | 1.18 | 12/24/2020 12:55 | WG1597132 |
| Total Xylenes | U | | 0.00114 | 0.00842 | 1.18 | 12/24/2020 12:55 | WG1597132 |
| (S) Toluene-d8 | 116 | | | 75.0-131 | | 12/24/2020 12:55 | WG1597132 |
| (S) 4-Bromofluorobenzene | 82.5 | | | 67.0-138 | | 12/24/2020 12:55 | WG1597132 |
| (S) 1,2-Dichloroethane-d4 | 95.9 | | | 70.0-130 | | 12/24/2020 12:55 | WG1597132 |

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| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.70 | 4.21 | 1 | 12/31/2020 02:27 | WG1598770 |
| C28-C40 Oil Range | 0.539 | <u>J</u> | 0.289 | 4.21 | 1 | 12/31/2020 02:27 | WG1598770 |
| (S) o-Terphenyl | 66.5 | | | 18.0-148 | | 12/31/2020 02:27 | WG1598770 |

ONE LAB. NAT Page 95 of \$75

Collected date/time: 12/16/20 14:10

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | <u>Batch</u> |
|--------------|--------|-----------|----------|------------------|--------------|
| Analyte | % | | | date / time | |
| Total Solids | 93.3 | | 1 | 12/30/2020 13:50 | WG1598924 |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 798 | | 9.87 | 21.4 | 1 | 12/30/2020 07:28 | WG1598695 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.696 | 3.20 | 28.2 | 12/30/2020 00:27 | WG1598684 |
| (S) a,a,a-Trifluorotoluene(FID) | 100 | | | 77.0-120 | | 12/30/2020 00:27 | WG1598684 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000600 | 0.00128 | 1.13 | 12/24/2020 13:14 | WG1597132 |
| Toluene | U | | 0.00167 | 0.00642 | 1.13 | 12/24/2020 13:14 | WG1597132 |
| Ethylbenzene | U | | 0.000947 | 0.00322 | 1.13 | 12/24/2020 13:14 | WG1597132 |
| Total Xylenes | U | | 0.00113 | 0.00835 | 1.13 | 12/24/2020 13:14 | WG1597132 |
| (S) Toluene-d8 | 103 | | | 75.0-131 | | 12/24/2020 13:14 | WG1597132 |
| (S) 4-Bromofluorobenzene | 94.8 | | | 67.0-138 | | 12/24/2020 13:14 | WG1597132 |
| (S) 1,2-Dichloroethane-d4 | 91.9 | | | 70.0-130 | | 12/24/2020 13:14 | WG1597132 |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.73 | 4.29 | 1 | 12/31/2020 02:40 | WG1598770 |
| C28-C40 Oil Range | 0.356 | <u>J</u> | 0.294 | 4.29 | 1 | 12/31/2020 02:40 | WG1598770 |
| (S) o-Terphenyl | 73.7 | | | 18.0-148 | | 12/31/2020 02:40 | WG1598770 |

ONE LAB. NATRAGE 96 of 175

Collected date/time: 12/16/20 14:20

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|------------------|
| Analyte | % | | | date / time | |
| Total Solids | 86.5 | | 1 | 12/29/2020 12:52 | <u>WG1598205</u> |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 4090 | | 106 | 231 | 10 | 12/30/2020 08:26 | WG1598696 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.775 | 3.57 | 27.5 | 12/30/2020 00:50 | WG1598684 |
| (S) a,a,a-Trifluorotoluene(FID) | 101 | | | 77.0-120 | | 12/30/2020 00:50 | WG1598684 |



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

| | ' | , , | · | | | | |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000667 | 0.00143 | 1.1 | 12/24/2020 13:33 | WG1597132 |
| Toluene | U | | 0.00186 | 0.00714 | 1.1 | 12/24/2020 13:33 | WG1597132 |
| Ethylbenzene | U | | 0.00105 | 0.00357 | 1.1 | 12/24/2020 13:33 | WG1597132 |
| Total Xylenes | U | | 0.00126 | 0.00928 | 1.1 | 12/24/2020 13:33 | WG1597132 |
| (S) Toluene-d8 | 99.4 | | | 75.0-131 | | 12/24/2020 13:33 | WG1597132 |
| (S) 4-Bromofluorobenzene | 94.4 | | | 67.0-138 | | 12/24/2020 13:33 | WG1597132 |
| (S) 1,2-Dichloroethane-d4 | 93.4 | | | 70.0-130 | | 12/24/2020 13:33 | WG1597132 |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.86 | 4.62 | 1 | 12/29/2020 21:05 | WG1598123 |
| C28-C40 Oil Range | 0.690 | <u>J</u> | 0.317 | 4.62 | 1 | 12/29/2020 21:05 | WG1598123 |
| (S) o-Terphenyl | 52.2 | | | 18.0-148 | | 12/29/2020 21:05 | WG1598123 |



Collected date/time: 12/16/20 14:40

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|-----------|
| Analyte | % | | | date / time | |
| Total Solids | 90.1 | | 1 | 12/29/2020 12:52 | WG1598205 |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 1470 | | 51.0 | 111 | 5 | 12/30/2020 08:45 | WG1598696 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 1.11 | 5.10 | 43.5 | 12/30/2020 01:12 | WG1598684 |
| (S) a,a,a-Trifluorotoluene(FID) | 100 | | | 77.0-120 | | 12/30/2020 01:12 | WG1598684 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000953 | 0.00204 | 1.74 | 12/24/2020 14:38 | WG1597132 |
| Toluene | 0.00332 | <u>J</u> | 0.00265 | 0.0102 | 1.74 | 12/24/2020 14:38 | WG1597132 |
| Ethylbenzene | 0.00199 | <u>J</u> | 0.00150 | 0.00510 | 1.74 | 12/24/2020 14:38 | WG1597132 |
| Total Xylenes | 0.00326 | <u>J</u> | 0.00179 | 0.0132 | 1.74 | 12/24/2020 14:38 | WG1597132 |
| (S) Toluene-d8 | 107 | | | 75.0-131 | | 12/24/2020 14:38 | WG1597132 |
| (S) 4-Bromofluorobenzene | 74.3 | | | 67.0-138 | | 12/24/2020 14:38 | WG1597132 |
| (S) 1,2-Dichloroethane-d4 | 88.9 | | | 70.0-130 | | 12/24/2020 14:38 | WG1597132 |
| | | | | | | | |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.79 | 4.44 | 1 | 12/29/2020 21:18 | WG1598123 |
| C28-C40 Oil Range | 0.775 | <u>J</u> | 0.304 | 4.44 | 1 | 12/29/2020 21:18 | WG1598123 |
| (S) o-Terphenyl | 73.5 | | | 18.0-148 | | 12/29/2020 21:18 | WG1598123 |

ONE LAB. NATRAGE 98 of 15

Collected date/time: 12/16/20 15:00

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | <u>Batch</u> |
|--------------|--------|-----------|----------|------------------|--------------|
| Analyte | % | | | date / time | |
| Total Solids | 87.7 | | 1 | 12/29/2020 12:52 | WG1598205 |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 267 | | 10.5 | 22.8 | 1 | 12/30/2020 08:54 | WG1598696 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.728 | 3.35 | 26.3 | 12/30/2020 01:34 | WG1598684 |
| (S) a,a,a-Trifluorotoluene(FID) | 100 | | | 77.0-120 | | 12/30/2020 01:34 | WG1598684 |



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

| · · | | , , | | | | | |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000625 | 0.00134 | 1.05 | 12/24/2020 14:56 | WG1597132 |
| Toluene | U | | 0.00173 | 0.00669 | 1.05 | 12/24/2020 14:56 | WG1597132 |
| Ethylbenzene | U | | 0.000987 | 0.00335 | 1.05 | 12/24/2020 14:56 | WG1597132 |
| Total Xylenes | U | | 0.00118 | 0.00871 | 1.05 | 12/24/2020 14:56 | WG1597132 |
| (S) Toluene-d8 | 139 | <u>J1</u> | | 75.0-131 | | 12/24/2020 14:56 | WG1597132 |
| (S) 4-Bromofluorobenzene | 122 | | | 67.0-138 | | 12/24/2020 14:56 | WG1597132 |
| (S) 1,2-Dichloroethane-d4 | 87.3 | | | 70.0-130 | | 12/24/2020 14:56 | WG1597132 |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.84 | 4.56 | 1 | 12/29/2020 21:32 | WG1598123 |
| C28-C40 Oil Range | 0.388 | <u>J</u> | 0.313 | 4.56 | 1 | 12/29/2020 21:32 | WG1598123 |
| (S) o-Terphenyl | 80.5 | | | 18.0-148 | | 12/29/2020 21:32 | WG1598123 |

ONE LAB. NATRAGE 99 of 15

Collected date/time: 12/16/20 15:20

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|-----------|
| Analyte | % | | | date / time | |
| Total Solids | 84.1 | | 1 | 12/29/2020 12:52 | WG1598205 |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 191 | | 10.9 | 23.8 | 1 | 12/30/2020 09:04 | WG1598696 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.994 | 4.58 | 34.5 | 12/30/2020 01:57 | WG1598684 |
| (S) a,a,a-Trifluorotoluene(FID) | 101 | | | 77.0-120 | | 12/30/2020 01:57 | WG1598684 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000855 | 0.00183 | 1.38 | 12/24/2020 15:15 | WG1597132 |
| Toluene | U | | 0.00238 | 0.00916 | 1.38 | 12/24/2020 15:15 | WG1597132 |
| Ethylbenzene | U | | 0.00135 | 0.00458 | 1.38 | 12/24/2020 15:15 | WG1597132 |
| Total Xylenes | U | | 0.00161 | 0.0119 | 1.38 | 12/24/2020 15:15 | WG1597132 |
| (S) Toluene-d8 | 113 | | | 75.0-131 | | 12/24/2020 15:15 | WG1597132 |
| (S) 4-Bromofluorobenzene | 72.1 | | | 67.0-138 | | 12/24/2020 15:15 | WG1597132 |
| (S) 1,2-Dichloroethane-d4 | 89.2 | | | 70.0-130 | | 12/24/2020 15:15 | WG1597132 |



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| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.92 | 4.76 | 1 | 12/29/2020 21:45 | WG1598123 |
| C28-C40 Oil Range | U | | 0.326 | 4.76 | 1 | 12/29/2020 21:45 | WG1598123 |
| (S) o-Terphenyl | 79.2 | | | 18.0-148 | | 12/29/2020 21:45 | WG1598123 |

ONE LAB. NA Page 100 of 175

Collected date/time: 12/16/20 16:00

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|------------------|
| Analyte | % | | | date / time | |
| Total Solids | 97.5 | | 1 | 12/29/2020 12:52 | <u>WG1598205</u> |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 1640 | | 47.2 | 103 | 5 | 12/30/2020 09:13 | WG1598696 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.621 | 2.86 | 27.3 | 12/30/2020 02:19 | WG1598684 |
| (S) a,a,a-Trifluorotoluene(FID) | 100 | | | 77.0-120 | | 12/30/2020 02:19 | WG1598684 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|-----------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000534 | 0.00114 | 1.09 | 12/24/2020 15:34 | WG1597132 |
| Toluene | U | | 0.00149 | 0.00571 | 1.09 | 12/24/2020 15:34 | WG1597132 |
| Ethylbenzene | U | | 0.000842 | 0.00286 | 1.09 | 12/24/2020 15:34 | WG1597132 |
| Total Xylenes | U | | 0.00101 | 0.00742 | 1.09 | 12/24/2020 15:34 | WG1597132 |
| (S) Toluene-d8 | 106 | | | 75.0-131 | | 12/24/2020 15:34 | WG1597132 |
| (S) 4-Bromofluorobenzene | 90.4 | | | 67.0-138 | | 12/24/2020 15:34 | WG1597132 |
| (S) 1,2-Dichloroethane-d4 | 88.7 | | | 70.0-130 | | 12/24/2020 15:34 | WG1597132 |
| (3) 1,2-Dichioloctilatic-a+ | 00.7 | | | 70.0-130 | | 12/24/2020 13.34 | W01337132 |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.65 | 4.10 | 1 | 12/30/2020 00:11 | WG1598123 |
| C28-C40 Oil Range | 5.58 | | 0.281 | 4.10 | 1 | 12/30/2020 00:11 | WG1598123 |
| (S) o-Terphenvl | 76.3 | | | 18.0-148 | | 12/30/2020 00:11 | WG1598123 |

ONE LAB. NA Page 101 of 175

Collected date/time: 12/16/20 16:10

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | <u>Batch</u> |
|--------------|--------|-----------|----------|------------------|--------------|
| Analyte | % | | | date / time | |
| Total Solids | 94.2 | | 1 | 12/29/2020 12:52 | WG1598205 |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 1160 | | 48.8 | 106 | 5 | 12/30/2020 09:23 | WG1598696 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.621 | 2.86 | 25.5 | 12/30/2020 02:42 | WG1598684 |
| (S) a,a,a-Trifluorotoluene(FID) | 101 | | | 77.0-120 | | 12/30/2020 02:42 | WG1598684 |



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

| • | | | | | | | |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000534 | 0.00115 | 1.02 | 12/24/2020 15:53 | WG1597132 |
| Toluene | U | | 0.00149 | 0.00573 | 1.02 | 12/24/2020 15:53 | WG1597132 |
| Ethylbenzene | U | | 0.000844 | 0.00286 | 1.02 | 12/24/2020 15:53 | WG1597132 |
| Total Xylenes | U | | 0.00101 | 0.00744 | 1.02 | 12/24/2020 15:53 | WG1597132 |
| (S) Toluene-d8 | 105 | | | 75.0-131 | | 12/24/2020 15:53 | WG1597132 |
| (S) 4-Bromofluorobenzene | 91.8 | | | 67.0-138 | | 12/24/2020 15:53 | WG1597132 |
| (S) 1,2-Dichloroethane-d4 | 85.6 | | | 70.0-130 | | 12/24/2020 15:53 | WG1597132 |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 92.9 | | 8.55 | 21.2 | 5 | 12/30/2020 01:31 | WG1598123 |
| C28-C40 Oil Range | 224 | | 1.45 | 21.2 | 5 | 12/30/2020 01:31 | WG1598123 |
| (S) o-Terphenyl | 74.2 | | | 18.0-148 | | 12/30/2020 01:31 | WG1598123 |

ONE LAB. NA Page 102 of 175

Collected date/time: 12/16/20 16:20

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|------------------|
| Analyte | % | | | date / time | |
| Total Solids | 91.2 | | 1 | 12/29/2020 12:52 | <u>WG1598205</u> |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 2810 | | 101 | 219 | 10 | 12/30/2020 09:32 | WG1598696 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|------------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 1.02 | 4.71 | 40.8 | 12/30/2020 04:44 | WG1598684 |
| (S) a,a,a-Trifluorotoluene(FID) | 101 | | | 77.0-120 | | 12/30/2020 04:44 | <u>WG1598684</u> |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------|--------------|-----------|-----------|-----------------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000879 | 0.00188 | 1.63 | 12/24/2020 16:12 | WG1597132 |
| Toluene | U | | 0.00245 | 0.00941 | 1.63 | 12/24/2020 16:12 | WG1597132 |
| Ethylbenzene | U | | 0.00139 | 0.00471 | 1.63 | 12/24/2020 16:12 | WG1597132 |
| Total Xylenes | U | | 0.00165 | 0.0122 | 1.63 | 12/24/2020 16:12 | WG1597132 |
| (S) Toluene-d8 | 107 | | | <i>75.0-131</i> | | 12/24/2020 16:12 | WG1597132 |
| (S) 4-Bromofluorobenzene | 93.2 | | | 67.0-138 | | 12/24/2020 16:12 | WG1597132 |
| (S) 1,2-Dichloroethane-d4 | 85.0 | | | 70.0-130 | | 12/24/2020 16:12 | WG1597132 |
| | | | | | | | |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.76 | 4.38 | 1 | 12/29/2020 21:58 | WG1598123 |
| C28-C40 Oil Range | 3.49 | <u>J</u> | 0.300 | 4.38 | 1 | 12/29/2020 21:58 | WG1598123 |
| (S) o-Terphenyl | 70.9 | | | 18.0-148 | | 12/29/2020 21:58 | WG1598123 |

Collected date/time: 12/16/20 16:30

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | <u>Batch</u> |
|--------------|--------|-----------|----------|------------------|--------------|
| Analyte | % | | | date / time | |
| Total Solids | 91.4 | | 1 | 12/29/2020 12:52 | WG1598205 |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 3750 | | 101 | 219 | 10 | 12/30/2020 10:01 | WG1598696 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.781 | 3.60 | 30.8 | 12/30/2020 05:07 | WG1598684 |
| (S) a,a,a-Trifluorotoluene(FID) | 98.6 | | | 77.0-120 | | 12/30/2020 05:07 | WG1598684 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000671 | 0.00144 | 1.23 | 12/24/2020 16:31 | WG1597132 |
| Toluene | U | | 0.00187 | 0.00719 | 1.23 | 12/24/2020 16:31 | WG1597132 |
| Ethylbenzene | U | | 0.00106 | 0.00360 | 1.23 | 12/24/2020 16:31 | WG1597132 |
| Total Xylenes | U | | 0.00126 | 0.00936 | 1.23 | 12/24/2020 16:31 | WG1597132 |
| (S) Toluene-d8 | 88.8 | | | 75.0-131 | | 12/24/2020 16:31 | WG1597132 |
| (S) 4-Bromofluorobenzene | 90.8 | | | 67.0-138 | | 12/24/2020 16:31 | WG1597132 |
| (S) 1,2-Dichloroethane-d4 | 84.7 | | | 70.0-130 | | 12/24/2020 16:31 | WG1597132 |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.76 | 4.37 | 1 | 12/29/2020 22:12 | WG1598123 |
| C28-C40 Oil Range | 1.29 | <u>J</u> | 0.300 | 4.37 | 1 | 12/29/2020 22:12 | WG1598123 |
| (S) o-Terphenyl | 74.8 | | | 18.0-148 | | 12/29/2020 22:12 | WG1598123 |

ONE LAB. NAPage 104 of 175

Collected date/time: 12/16/20 16:40

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|------------------|
| Analyte | % | | | date / time | |
| Total Solids | 97.9 | | 1 | 12/29/2020 14:26 | <u>WG1598206</u> |

Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 477 | | 9.40 | 20.4 | 1 | 12/30/2020 10:10 | WG1598696 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.606 | 2.79 | 26.8 | 12/30/2020 05:29 | WG1598684 |
| (S) a,a,a-Trifluorotoluene(FID) | 102 | | | 77.0-120 | | 12/30/2020 05:29 | WG1598684 |



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

| | (| , , | , | | | | |
|---------------------------|--------------|-----------|-----------|-----------------|----------|------------------|-----------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000521 | 0.00111 | 1.07 | 12/24/2020 16:49 | WG1597132 |
| Toluene | 0.00947 | | 0.00145 | 0.00557 | 1.07 | 12/24/2020 16:49 | WG1597132 |
| Ethylbenzene | 0.00346 | | 0.000821 | 0.00279 | 1.07 | 12/24/2020 16:49 | WG1597132 |
| Total Xylenes | 0.0152 | | 0.000981 | 0.00725 | 1.07 | 12/24/2020 16:49 | WG1597132 |
| (S) Toluene-d8 | 100 | | | <i>75.0-131</i> | | 12/24/2020 16:49 | WG1597132 |
| (S) 4-Bromofluorobenzene | 108 | | | 67.0-138 | | 12/24/2020 16:49 | WG1597132 |
| (S) 1,2-Dichloroethane-d4 | 86.3 | | | 70.0-130 | | 12/24/2020 16:49 | WG1597132 |

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| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 155 | | 16.4 | 40.8 | 10 | 12/30/2020 01:44 | WG1598123 |
| C28-C40 Oil Range | 530 | | 2.80 | 40.8 | 10 | 12/30/2020 01:44 | WG1598123 |
| (S) o-Terphenyl | 90.0 | | | 18.0-148 | | 12/30/2020 01:44 | WG1598123 |

ONE LAB. NAPagev105 of 175

Collected date/time: 12/16/20 16:50

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | <u>Batch</u> |
|--------------|--------|-----------|----------|------------------|--------------|
| Analyte | % | | | date / time | |
| Total Solids | 95.2 | | 1 | 12/29/2020 14:26 | WG1598206 |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 148 | | 9.66 | 21.0 | 1 | 12/30/2020 10:20 | WG1598696 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|------------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.707 | 3.26 | 29.8 | 12/30/2020 05:51 | WG1598684 |
| (S) a,a,a-Trifluorotoluene(FID) | 101 | | | 77.0-120 | | 12/30/2020 05:51 | <u>WG1598684</u> |



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

| | 1 \ | , , | , | | | | |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| <u> </u> | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000608 | 0.00130 | 1.19 | 12/24/2020 17:08 | WG1597132 |
| Toluene | 0.00494 | <u>J</u> | 0.00169 | 0.00650 | 1.19 | 12/24/2020 17:08 | WG1597132 |
| Ethylbenzene | U | | 0.000958 | 0.00325 | 1.19 | 12/24/2020 17:08 | WG1597132 |
| Total Xylenes | 0.00290 | <u>J</u> | 0.00115 | 0.00846 | 1.19 | 12/24/2020 17:08 | WG1597132 |
| (S) Toluene-d8 | 121 | | | 75.0-131 | | 12/24/2020 17:08 | WG1597132 |
| (S) 4-Bromofluorobenzene | 106 | | | 67.0-138 | | 12/24/2020 17:08 | WG1597132 |
| (S) 1,2-Dichloroethane-d4 | 83.0 | | | 70.0-130 | | 12/24/2020 17:08 | WG1597132 |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 22.4 | | 8.45 | 21.0 | 5 | 12/30/2020 01:17 | WG1598123 |
| C28-C40 Oil Range | 66.9 | | 1.44 | 21.0 | 5 | 12/30/2020 01:17 | WG1598123 |
| (S) o-Terphenvl | 77.9 | | | 18.0-148 | | 12/30/2020 01:17 | WG1598123 |



Collected date/time: 12/16/20 17:00

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|------------------|
| Analyte | % | | | date / time | |
| Total Solids | 96.9 | | 1 | 12/29/2020 14:26 | <u>WG1598206</u> |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 343 | | 9.49 | 20.6 | 1 | 12/30/2020 10:48 | WG1598696 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.852 | 3.93 | 37.3 | 12/30/2020 06:13 | WG1598684 |
| (S) a,a,a-Trifluorotoluene(FID) | 100 | | | 77.0-120 | | 12/30/2020 06:13 | WG1598684 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000733 | 0.00157 | 1.49 | 12/24/2020 17:27 | WG1597132 |
| Toluene | U | | 0.00204 | 0.00785 | 1.49 | 12/24/2020 17:27 | WG1597132 |
| Ethylbenzene | U | | 0.00116 | 0.00393 | 1.49 | 12/24/2020 17:27 | WG1597132 |
| Total Xylenes | U | | 0.00138 | 0.0102 | 1.49 | 12/24/2020 17:27 | WG1597132 |
| (S) Toluene-d8 | 103 | | | 75.0-131 | | 12/24/2020 17:27 | WG1597132 |
| (S) 4-Bromofluorobenzene | 93.5 | | | 67.0-138 | | 12/24/2020 17:27 | WG1597132 |
| (S) 1,2-Dichloroethane-d4 | 84.3 | | | 70.0-130 | | 12/24/2020 17:27 | WG1597132 |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 9.25 | | 1.66 | 4.13 | 1 | 12/30/2020 01:04 | WG1598123 |
| C28-C40 Oil Range | 31.6 | | 0.283 | 4.13 | 1 | 12/30/2020 01:04 | WG1598123 |
| (S) o-Terphenyl | 75.7 | | | 18.0-148 | | 12/30/2020 01:04 | WG1598123 |

ONE LAB. NAPagev107 of 175

Collected date/time: 12/16/20 17:10

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | <u>Batch</u> |
|--------------|--------|-----------|----------|------------------|--------------|
| Analyte | % | | | date / time | |
| Total Solids | 95.3 | | 1 | 12/29/2020 14:26 | WG1598206 |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 537 | | 9.66 | 21.0 | 1 | 12/30/2020 10:58 | WG1598696 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.597 | 2.75 | 25 | 12/30/2020 06:36 | WG1598684 |
| (S) a,a,a-Trifluorotoluene(FID) | 101 | | | 77.0-120 | | 12/30/2020 06:36 | WG1598684 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000514 | 0.00110 | 1 | 12/24/2020 17:45 | WG1597132 |
| Toluene | U | | 0.00143 | 0.00550 | 1 | 12/24/2020 17:45 | WG1597132 |
| Ethylbenzene | U | | 0.000810 | 0.00275 | 1 | 12/24/2020 17:45 | WG1597132 |
| Total Xylenes | U | | 0.000968 | 0.00715 | 1 | 12/24/2020 17:45 | WG1597132 |
| (S) Toluene-d8 | 107 | | | 75.0-131 | | 12/24/2020 17:45 | WG1597132 |
| (S) 4-Bromofluorobenzene | 96.0 | | | 67.0-138 | | 12/24/2020 17:45 | WG1597132 |
| (S) 1,2-Dichloroethane-d4 | 84.2 | | | 70.0-130 | | 12/24/2020 17:45 | WG1597132 |
| | | | | | | | |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 7.40 | | 1.69 | 4.20 | 1 | 12/30/2020 00:51 | WG1598123 |
| C28-C40 Oil Range | 28.2 | | 0.288 | 4.20 | 1 | 12/30/2020 00:51 | WG1598123 |
| (S) o-Terphenvl | 84.3 | | | 18.0-148 | | 12/30/2020 00:51 | WG1598123 |



Collected date/time: 12/16/20 17:20

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|------------------|
| Analyte | % | | | date / time | |
| Total Solids | 94.5 | | 1 | 12/29/2020 14:26 | <u>WG1598206</u> |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 364 | | 9.74 | 21.2 | 1 | 12/30/2020 11:07 | WG1598696 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 4.17 | 19.2 | 180 | 12/30/2020 06:58 | WG1598684 |
| (S) a,a,a-Trifluorotoluene(FID) | 101 | | | 77.0-120 | | 12/30/2020 06:58 | WG1598684 |



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

| | 1 \ | , , | | | | | |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | 0.0236 | | 0.00358 | 0.00767 | 7.19 | 12/26/2020 11:31 | WG1597581 |
| oluene | 0.151 | | 0.00997 | 0.0384 | 7.19 | 12/26/2020 11:31 | WG1597581 |
| Ethylbenzene | 0.0236 | | 0.00565 | 0.0192 | 7.19 | 12/26/2020 11:31 | WG1597581 |
| otal Xylenes | 0.158 | | 0.00675 | 0.0498 | 7.19 | 12/26/2020 11:31 | WG1597581 |
| (S) Toluene-d8 | 103 | | | 75.0-131 | | 12/26/2020 11:31 | WG1597581 |
| (S) 4-Bromofluorobenzene | 96.8 | | | 67.0-138 | | 12/26/2020 11:31 | WG1597581 |
| (S) 1,2-Dichloroethane-d4 | 90.9 | | | 70.0-130 | | 12/26/2020 11:31 | WG1597581 |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 2.25 | <u>J</u> | 1.70 | 4.23 | 1 | 12/30/2020 00:24 | WG1598123 |
| C28-C40 Oil Range | 9.78 | | 0.290 | 4.23 | 1 | 12/30/2020 00:24 | WG1598123 |
| (S) o-Terphenyl | 84.9 | | | 18.0-148 | | 12/30/2020 00:24 | WG1598123 |

ONE LAB. NAPagev109 of 175

Collected date/time: 12/16/20 17:30

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | <u>Batch</u> |
|--------------|--------|-----------|----------|------------------|--------------|
| Analyte | % | | | date / time | |
| Total Solids | 97.3 | | 1 | 12/29/2020 14:26 | WG1598206 |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 33.2 | | 9.46 | 20.6 | 1 | 12/30/2020 11:17 | WG1598696 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.574 | 2.64 | 25 | 12/30/2020 07:21 | WG1598684 |
| (S) a,a,a-Trifluorotoluene(FID) | 100 | | | 77.0-120 | | 12/30/2020 07:21 | WG1598684 |



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

| · · | ' | · · · · · · · · | • | | | | |
|---------------------------|--------------|-----------------|-----------|-----------|----------|------------------|--------------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000494 | 0.00106 | 1 | 12/26/2020 11:50 | WG1597581 |
| Toluene | U | | 0.00137 | 0.00528 | 1 | 12/26/2020 11:50 | WG1597581 |
| Ethylbenzene | U | | 0.000779 | 0.00264 | 1 | 12/26/2020 11:50 | WG1597581 |
| Total Xylenes | U | | 0.000930 | 0.00687 | 1 | 12/26/2020 11:50 | WG1597581 |
| (S) Toluene-d8 | 102 | | | 75.0-131 | | 12/26/2020 11:50 | WG1597581 |
| (S) 4-Bromofluorobenzene | 96.1 | | | 67.0-138 | | 12/26/2020 11:50 | WG1597581 |
| (S) 1,2-Dichloroethane-d4 | 101 | | | 70.0-130 | | 12/26/2020 11:50 | WG1597581 |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.66 | 4.11 | 1 | 12/29/2020 22:25 | WG1598123 |
| C28-C40 Oil Range | 1.88 | <u>J</u> | 0.282 | 4.11 | 1 | 12/29/2020 22:25 | WG1598123 |
| (S) o-Terphenyl | 73.0 | | | 18.0-148 | | 12/29/2020 22:25 | WG1598123 |

ONE LAB. NAPage 110 of 175

Collected date/time: 12/16/20 17:40

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|------------------|
| Analyte | % | | | date / time | |
| Total Solids | 91.5 | | 1 | 12/29/2020 14:26 | <u>WG1598206</u> |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 29.8 | | 10.1 | 21.9 | 1 | 12/30/2020 11:26 | WG1598696 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.738 | 3.40 | 29 | 12/30/2020 07:43 | WG1598684 |
| (S) a,a,a-Trifluorotoluene(FID) | 99.4 | | | 77.0-120 | | 12/30/2020 07:43 | WG1598684 |



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

| | ' | , , , | ' | | | | |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000636 | 0.00136 | 1.16 | 12/26/2020 12:09 | WG1597581 |
| Toluene | U | | 0.00177 | 0.00680 | 1.16 | 12/26/2020 12:09 | WG1597581 |
| Ethylbenzene | U | | 0.00100 | 0.00340 | 1.16 | 12/26/2020 12:09 | WG1597581 |
| Total Xylenes | U | | 0.00120 | 0.00884 | 1.16 | 12/26/2020 12:09 | WG1597581 |
| (S) Toluene-d8 | 103 | | | 75.0-131 | | 12/26/2020 12:09 | WG1597581 |
| (S) 4-Bromofluorobenzene | 95.0 | | | 67.0-138 | | 12/26/2020 12:09 | WG1597581 |
| (S) 1,2-Dichloroethane-d4 | 101 | | | 70.0-130 | | 12/26/2020 12:09 | WG1597581 |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.76 | 4.37 | 1 | 12/29/2020 22:38 | WG1598123 |
| C28-C40 Oil Range | 2.22 | <u>J</u> | 0.299 | 4.37 | 1 | 12/29/2020 22:38 | WG1598123 |
| (S) o-Terphenyl | 73.2 | | | 18.0-148 | | 12/29/2020 22:38 | WG1598123 |

ONE LAB. NA Page 11 of 175

Collected date/time: 12/16/20 17:50

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | <u>Batch</u> |
|--------------|--------|-----------|----------|------------------|--------------|
| Analyte | % | | | date / time | |
| Total Solids | 89.0 | | 1 | 12/29/2020 14:26 | WG1598206 |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 10.6 | <u>J</u> | 10.3 | 22.5 | 1 | 12/30/2020 11:58 | WG1598696 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.681 | 3.14 | 25 | 12/30/2020 08:05 | WG1598684 |
| (S) a,a,a-Trifluorotoluene(FID) | 101 | | | 77.0-120 | | 12/30/2020 08:05 | WG1598684 |



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

| | , , | , , | | | | | |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000586 | 0.00125 | 1 | 12/26/2020 12:28 | WG1597581 |
| Toluene | U | | 0.00163 | 0.00627 | 1 | 12/26/2020 12:28 | WG1597581 |
| Ethylbenzene | U | | 0.000924 | 0.00314 | 1 | 12/26/2020 12:28 | WG1597581 |
| Total Xylenes | U | | 0.00110 | 0.00815 | 1 | 12/26/2020 12:28 | WG1597581 |
| (S) Toluene-d8 | 103 | | | 75.0-131 | | 12/26/2020 12:28 | WG1597581 |
| (S) 4-Bromofluorobenzene | 93.4 | | | 67.0-138 | | 12/26/2020 12:28 | WG1597581 |
| (S) 1,2-Dichloroethane-d4 | 98.6 | | | 70.0-130 | | 12/26/2020 12:28 | WG1597581 |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.81 | 4.49 | 1 | 12/29/2020 23:18 | WG1598123 |
| C28-C40 Oil Range | 1.36 | <u>J</u> | 0.308 | 4.49 | 1 | 12/29/2020 23:18 | WG1598123 |
| (S) o-Terphenyl | 78.9 | | | 18.0-148 | | 12/29/2020 23:18 | WG1598123 |

ONE LAB. NAPagev112 of 175

Collected date/time: 12/16/20 18:00

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|------------------|
| Analyte | % | | | date / time | |
| Total Solids | 98.1 | | 1 | 12/29/2020 14:26 | <u>WG1598206</u> |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 291 | | 9.38 | 20.4 | 1 | 12/30/2020 12:07 | WG1598696 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 1.00 | 4.62 | 44.8 | 12/30/2020 08:27 | WG1598684 |
| (S) a,a,a-Trifluorotoluene(FID) | 100 | | | 77.0-120 | | 12/30/2020 08:27 | WG1598684 |



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

| | ' | , , , | ' | | | | |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | 0.000876 | <u>J</u> | 0.000862 | 0.00185 | 1.79 | 12/26/2020 12:47 | WG1597581 |
| Toluene | U | | 0.00240 | 0.00923 | 1.79 | 12/26/2020 12:47 | WG1597581 |
| Ethylbenzene | U | | 0.00136 | 0.00462 | 1.79 | 12/26/2020 12:47 | WG1597581 |
| Total Xylenes | 0.00365 | <u>J</u> | 0.00163 | 0.0120 | 1.79 | 12/26/2020 12:47 | WG1597581 |
| (S) Toluene-d8 | 102 | | | 75.0-131 | | 12/26/2020 12:47 | WG1597581 |
| (S) 4-Bromofluorobenzene | 92.9 | | | 67.0-138 | | 12/26/2020 12:47 | WG1597581 |
| (S) 1,2-Dichloroethane-d4 | 103 | | | 70.0-130 | | 12/26/2020 12:47 | WG1597581 |

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| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 3.36 | <u>J</u> | 1.64 | 4.08 | 1 | 12/30/2020 00:38 | WG1598123 |
| C28-C40 Oil Range | 25.1 | | 0.279 | 4.08 | 1 | 12/30/2020 00:38 | WG1598123 |
| (S) o-Terphenyl | 80.9 | | | 18.0-148 | | 12/30/2020 00:38 | WG1598123 |

ONE LAB. NA Page 113 of 175

Collected date/time: 12/16/20 18:10

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|------------------|
| Analyte | % | | | date / time | |
| Total Solids | 98.5 | | 1 | 12/29/2020 14:26 | <u>WG1598206</u> |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 23.2 | | 9.34 | 20.3 | 1 | 12/30/2020 12:16 | WG1598696 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.560 | 2.58 | 25 | 12/30/2020 08:50 | WG1598684 |
| (S) a,a,a-Trifluorotoluene(FID) | 101 | | | 77.0-120 | | 12/30/2020 08:50 | WG1598684 |



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

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|---------------------------|--------------|-----------|-----------|-----------------|----------|------------------|-----------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000482 | 0.00103 | 1 | 12/26/2020 13:06 | WG1597581 |
| Toluene | U | | 0.00134 | 0.00516 | 1 | 12/26/2020 13:06 | WG1597581 |
| Ethylbenzene | U | | 0.000760 | 0.00258 | 1 | 12/26/2020 13:06 | WG1597581 |
| Total Xylenes | U | | 0.000908 | 0.00671 | 1 | 12/26/2020 13:06 | WG1597581 |
| (S) Toluene-d8 | 105 | | | <i>75.0-131</i> | | 12/26/2020 13:06 | WG1597581 |
| (S) 4-Bromofluorobenzene | 95.2 | | | 67.0-138 | | 12/26/2020 13:06 | WG1597581 |
| (S) 1,2-Dichloroethane-d4 | 103 | | | 70.0-130 | | 12/26/2020 13:06 | WG1597581 |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.63 | 4.06 | 1 | 12/29/2020 23:31 | WG1598123 |
| C28-C40 Oil Range | 8.49 | | 0.278 | 4.06 | 1 | 12/29/2020 23:31 | WG1598123 |
| (S) o-Terphenyl | 84.1 | | | 18.0-148 | | 12/29/2020 23:31 | WG1598123 |

Collected date/time: 12/16/20 18:20

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | <u>Batch</u> |
|--------------|--------|-----------|----------|------------------|--------------|
| Analyte | % | | | date / time | |
| Total Solids | 96.1 | | 1 | 12/29/2020 14:14 | WG1598207 |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 32.7 | | 9.58 | 20.8 | 1 | 12/30/2020 12:26 | WG1598696 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | U | | 0.796 | 3.67 | 34.3 | 12/30/2020 07:08 | WG1598691 |
| (S) a,a,a-Trifluorotoluene(FID) | 97.7 | | | 77.0-120 | | 12/30/2020 07:08 | WG1598691 |



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

| | ' | , , | ' | | | | |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000685 | 0.00147 | 1.37 | 12/26/2020 13:25 | WG1597581 |
| Toluene | U | | 0.00191 | 0.00733 | 1.37 | 12/26/2020 13:25 | WG1597581 |
| Ethylbenzene | U | | 0.00108 | 0.00367 | 1.37 | 12/26/2020 13:25 | WG1597581 |
| Total Xylenes | U | | 0.00130 | 0.00953 | 1.37 | 12/26/2020 13:25 | WG1597581 |
| (S) Toluene-d8 | 106 | | | 75.0-131 | | 12/26/2020 13:25 | WG1597581 |
| (S) 4-Bromofluorobenzene | 97.8 | | | 67.0-138 | | 12/26/2020 13:25 | WG1597581 |
| (S) 1,2-Dichloroethane-d4 | 103 | | | 70.0-130 | | 12/26/2020 13:25 | WG1597581 |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.68 | 4.16 | 1 | 12/29/2020 23:44 | WG1598123 |
| C28-C40 Oil Range | 4.41 | | 0.285 | 4.16 | 1 | 12/29/2020 23:44 | WG1598123 |
| (S) o-Terphenyl | 74.8 | | | 18.0-148 | | 12/29/2020 23:44 | WG1598123 |

| 1 | 6 |
|---|-----------------|
| | [°] Qc |







ONE LAB. NA Page 115 of 175

Collected date/time: 12/16/20 18:30

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | <u>Batch</u> |
|--------------|--------|-----------|----------|------------------|--------------|
| Analyte | % | | | date / time | |
| Total Solids | 96.3 | | 1 | 12/29/2020 14:14 | WG1598207 |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 42.4 | | 9.55 | 20.8 | 1 | 12/30/2020 12:35 | WG1598696 |



Ss

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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 1.12 | ВЈ | 0.922 | 4.25 | 40 | 12/30/2020 07:31 | WG1598691 |
| (S) a,a,a-Trifluorotoluene(FID) | 98.1 | | | 77.0-120 | | 12/30/2020 07:31 | WG1598691 |



СQс

Gl

Cn

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

| Volume original compounds (ocimo) by memor of oci | | | | | | | | | |
|---|--------------|-----------|-----------|-----------|----------|------------------|-----------|--|--|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch | | |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | | | |
| Benzene | U | | 0.000793 | 0.00170 | 1.6 | 12/26/2020 13:44 | WG1597581 | | |
| Toluene | U | | 0.00221 | 0.00850 | 1.6 | 12/26/2020 13:44 | WG1597581 | | |
| Ethylbenzene | U | | 0.00125 | 0.00425 | 1.6 | 12/26/2020 13:44 | WG1597581 | | |
| Total Xylenes | U | | 0.00150 | 0.0110 | 1.6 | 12/26/2020 13:44 | WG1597581 | | |
| (S) Toluene-d8 | 103 | | | 75.0-131 | | 12/26/2020 13:44 | WG1597581 | | |
| (S) 4-Bromofluorobenzene | 93.9 | | | 67.0-138 | | 12/26/2020 13:44 | WG1597581 | | |
| (S) 1,2-Dichloroethane-d4 | 105 | | | 70.0-130 | | 12/26/2020 13:44 | WG1597581 | | |

Semi-Volatile Organic Compounds (GC) by Method 8015

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | U | | 1.67 | 4.15 | 1 | 12/29/2020 23:58 | WG1598123 |
| C28-C40 Oil Range | 2.29 | <u>J</u> | 0.284 | 4.15 | 1 | 12/29/2020 23:58 | WG1598123 |
| (S) o-Terphenyl | 80.8 | | | 18.0-148 | | 12/29/2020 23:58 | WG1598123 |

ConocoPhillips - Tetra Tech

ONE LAB. NA Page 116 of 175

Total Solids by Method 2540 G-2011

L1299139-21,22,23,24,25,26,27,28

Method Blank (MB)

| (MB) R3608325-1 12 | 2/29/20 12:52 | | | |
|--------------------|---------------|--------------|--------|--------|
| | MB Result | MB Qualifier | MB MDL | MB RDL |
| Analyte | % | | % | % |
| Total Solids | 0.000 | | | |

L1299139-24 Original Sample (OS) • Duplicate (DUP)

| (OS) L1299139-24 | 12/29/20 12:52 • (DUP) | R3608325-3 | 12/29/20 | 12:52 | |
|------------------|------------------------|-------------|----------|---------|---------------|
| | Ovininal Decult | DLID Decult | Dilution | DUD DDD | DUD Ouglition |

| | Original Resu | lt DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|---------------|---------------|----------|---------|---------------|-------------------|
| Analyte | % | % | | % | | % |
| Total Solids | 84.1 | 84.5 | 1 | 0.483 | | 10 |

Laboratory Control Sample (LCS)

(LCS) R3608325-2 12/29/20 12:52

| (LC3) K3006323-2 12/29 | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|------------------------|--------------|------------|----------|-------------|---------------|
| Analyte | % | % | % | % | |
| Total Solids | 50.0 | 50.1 | 100 | 85.0-115 | |





ONE LAB. NA Page 117 of 175

Total Solids by Method 2540 G-2011

L129<u>9139-29,30,31,32,33,34,35,36,37,38</u>

Method Blank (MB)

| (MB) R3608283-1 12 | /29/20 14:26 | | | |
|--------------------|--------------|--------------|--------|--------|
| | MB Result | MB Qualifier | MB MDL | MB RDL |
| Analyte | % | | % | % |
| Total Solids | 0.000 | | | |

L1299139-36 Original Sample (OS) • Duplicate (DUP)

| (OS) L1299139-36 12/29/20 14:26 • (DUP) R3608283-3 12/29/20 14:26 | | | | | | | | |
|---|-----------------|------------|----------|---------|---------------|-------------------|--|--|
| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits | | |
| Analyte | % | % | | % | | % | | |
| Total Solids | 89.0 | 89.8 | 1 | 0.853 | | 10 | | |

Laboratory Control Sample (LCS)

| (LCS) R3608283-2 12/29/20 14:26 | | | | | | |
|---------------------------------|--------------|------------|----------|-------------|---------------|--|
| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier | |
| Analyte | % | % | % | % | | |
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | | |

ONE LAB. NAPageville of 175

Total Solids by Method 2540 G-2011

L1299139-39,40

Method Blank (MB)

| (MB) R3608282-1 12/29/20 14:14 | | | | | | |
|--------------------------------|-----------|--------------|--------|--------|--|--|
| | MB Result | MB Qualifier | MB MDL | MB RDL | | |
| Analyte | % | | % | % | | |
| Total Solids | 0.000 | | | | | |

2





Laboratory Control Sample (LCS)

| (LCS) R3608282-2 12/29/20 14:14 | | | | | | | |
|---------------------------------|--------------|------------|----------|-------------|---------------|--|--|
| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier | | |
| Analyte | % | % | % | % | | | |
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | | | |











ONE LAB. NA Page 119 of 175

Total Solids by Method 2540 G-2011

L1299139-01,02,03

Method Blank (MB)

| (MB) R3608629-1 12 | (MB) R3608629-1 12/31/20 00:29 | | | | | | |
|--------------------|--------------------------------|--------------|--------|--------|--|--|--|
| | MB Result | MB Qualifier | MB MDL | MB RDL | | | |
| Analyte | % | | % | % | | | |
| Total Solids | 0.000 | | | | | | |

Ss

L1299139-02 Original Sample (OS) • Duplicate (DUP)

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|---------------|-------------------|
| Analyte | % | % | | % | | % |
| Total Solids | 92.4 | 93.1 | 1 | 0.769 | | 10 |





Laboratory Control Sample (LCS)

| (LCS) R3608629-2 12 | 2/31/20 00:29 | |
|---------------------|---------------|--|
|---------------------|---------------|--|

| (LCS) R3608629-2 12/31/2 | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|--------------------------|--------------|------------|----------|-------------|---------------|
| Analyte | % | % | % | % | |
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |





ConocoPhillips - Tetra Tech

ONE LAB. NA Page 120 of 175

Total Solids by Method 2540 G-2011

L1299139-04,05,06,07,08,09,10,11,12,13

Method Blank (MB)

| (MB) R3608597-1 12 | /30/20 14:08 | | | |
|--------------------|--------------|--------------|--------|--------|
| | MB Result | MB Qualifier | MB MDL | MB RDL |
| Analyte | % | | % | % |
| Total Solids | 0.000 | | | |

3

L1299139-13 Original Sample (OS) • Duplicate (DUP)

| (OS) L1299139-13 | 12/30/20 14:08 | • (DUP) R3608597-3 | 12/30/20 14:08 |
|------------------|----------------|--------------------|----------------|
| | | | |

| | Original Resi | ult DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|---------------|----------------|----------|---------|---------------|-------------------|
| Analyte | % | % | | % | | % |
| Total Solids | 85.2 | 84.8 | 1 | 0.461 | | 10 |



Laboratory Control Sample (LCS)

(LCS) R3608597-2 12/30/20 14:08

| (LCS) R3608597-2 12/30/. | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|--------------------------|--------------|------------|----------|-------------|---------------|
| Analyte | % | % | % | % | |
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |





ONE LAB. NA Page 121 of 175

Total Solids by Method 2540 G-2011

L1299139-14,15,16,17,18,19,20

Method Blank (MB)

| (MB) R3608595-1 1 | 12/30/20 13:50 | | | |
|-------------------|----------------|--------------|--------|--------|
| | MB Result | MB Qualifier | MB MDL | MB RDL |
| Analyte | % | | % | % |
| Total Solids | 0.00100 | | | |



Ss

L1299181-01 Original Sample (OS) • Duplicate (DUP)

| (OS) I 1299181-01 | 12/30/20 13:50 • (| DUP) R3608595-3 | 12/30/20 13:50 |
|-------------------|--------------------|-------------------|----------------|
| (00) [120010101 | 12/30/20 13.30 - (| DOI / 11300033333 | 12/30/20 13.30 |

| (00) 2.200.01 01 12/00/2 | Original Result | | | | DUP Qualifier | DUP RPD Limits |
|--------------------------|-----------------|------|---|-------|---------------|-------------------|
| Analyte | % | % | | % | | % |
| Total Solids | 80.3 | 81.0 | 1 | 0.875 | | 10 |





Laboratory Control Sample (LCS)

| (LCS) R3608595-2 | 12/30/20 13:50 | Э |
|------------------|----------------|---|
|------------------|----------------|---|

| (LCS) R3608595-2 12/30/. | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|--------------------------|--------------|------------|----------|-------------|---------------|
| Analyte | % | % | % | % | |
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |





ONE LAB. NA Page 122 of 175

Wet Chemistry by Method 300.0

L1299139-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20

Method Blank (MB)

| (MB) R3608353 | 1 12/30/20 02:40 | | | |
|---------------|------------------|--------------|--------|--------|
| | MB Result | MB Qualifier | MB MDL | MB RDL |
| Analyte | mg/kg | | mg/kg | mg/kg |
| Chloride | U | | 9.20 | 20.0 |





L1299139-01 Original Sample (OS) • Duplicate (DUP)

| (OS) L1299139-01 12/30/20 | 03:08 • (DUP) | R3608353-3 | 12/30/20 | 03:18 | | |
|---------------------------|--------------------------|---------------------|----------|---------|---------------|-------------------|
| | Original Result (dry) | DUP Result (dry) | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
| Analyte | mg/kg | mg/kg | | % | | % |
| Chloride | 3030 | 3020 | 10 | 0.579 | | 20 |





L1299139-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1299139-20 12/30/20 07:28 • (DUP) R3608353-6 12/30/20 07:38

| (00) 11233103 20 1270072 | Original Result (dry) | , | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------------------|--------------------------|-------|----------|---------|---------------|-------------------|
| Analyte | mg/kg | mg/kg | | % | | % |
| Chloride | 798 | 774 | 1 | 3.09 | | 20 |





Laboratory Control Sample (LCS)

| (LCS) R3608353-2 | 12/30/20 02:49 |
|------------------|----------------|
| | C 11 A |

| , | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------|--------------|------------|----------|-------------|---------------|
| Analyte | mg/kg | mg/kg | % | % | |
| Chloride | 200 | 207 | 104 | 90.0-110 | |

L1299139-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

| (OS) L1299139-09 12/30/2 | 0 04:56 • (MS) | R3608353-4 1 | 2/30/20 05:06 | • (MSD) R360 | 8353-5 12/30/ | 20 05:15 | | | | | | |
|--------------------------|--------------------|--------------------------|-----------------|---------------------|---------------|----------|----------|-------------|--------------|---------------|-------|------------|
| | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Chloride | 570 | 3150 | 3790 | 3770 | 113 | 109 | 1 | 80.0-120 | Е | Е | 0.574 | 20 |

ONE LAB. NAPagev123 of 175

Wet Chemistry by Method 300.0

L1299139-21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40

Method Blank (MB)

| (MB) R3608354-1 12/30/20 | 08:07 | | | |
|--------------------------|-----------|--------------|--------|--------|
| | MB Result | MB Qualifier | MB MDL | MB RDL |
| Analyte | mg/kg | | mg/kg | mg/kg |
| Chloride | U | | 9.20 | 20.0 |





L1299139-21 Original Sample (OS) • Duplicate (DUP)

| (OS) L1299139-21 12/30/20 | 08:26 • (DUP) | R3608354-3 | 12/30/20 | 08:35 | | | |
|---------------------------|--------------------------|---------------------|----------|---------|---------------|-------------------|--|
| | Original Result (dry) | DUP Result (dry) | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits | |
| Analyte | mg/kg | mg/kg | | % | | % | |
| Chloride | 4090 | 4080 | 10 | 0.433 | | 20 | |





L1299139-40 Original Sample (OS) • Duplicate (DUP)

(OS) L1299139-40 12/30/20 12:35 • (DUP) R3608354-6 12/30/20 12:45

| (, | | Original Result (dry) | | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----|----------|--------------------------|-------|----------|---------|---------------|-------------------|
| A | Analyte | mg/kg | mg/kg | | % | | % |
| (| Chloride | 42.4 | 42.7 | 1 | 0.836 | | 20 |





Laboratory Control Sample (LCS)

| (LCS) R3608354-2 12/30/2 | 20 08:16 | | | | |
|--------------------------|--------------|------------|----------|-------------|---------------|
| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
| Analyte | mg/kg | mg/kg | % | % | |
| Chloride | 200 | 207 | 104 | 90.0-110 | |

L1299139-30 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1299139-30 12/30/20 10:20 • (MS) R3608354-4 12/30/20 10:29 • (MSD) R3608354-5 12/30/20 10:39

| (03) [1299139=30 12/30/2 | 20 10.20 • (1013) | K3000334-4 I. | 2/30/20 10.29 | · (NOOO) KOOOO | 334-3 12/30/2 | .0 10.55 | | | | | | |
|--------------------------|--------------------|--------------------------|-----------------|---------------------|---------------|----------|----------|-------------|--------------|---------------|-------|------------|
| | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Chloride | 525 | 148 | 689 | 691 | 103 | 103 | 1 | 80.0-120 | | | 0.279 | 20 |

ONE LAB. NA Page 124 of 175

L1299139-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18 Volatile Organic Compounds (GC) by Method 8015D/GRO

Method Blank (MB)

| (MB) R3609166-2 12/29/2 | (MB) R3609166-2 12/29/20 23:53 | | | | | | | |
|------------------------------------|--------------------------------|--------------|--------|----------|--|--|--|--|
| | MB Result | MB Qualifier | MB MDL | MB RDL | | | | |
| Analyte | mg/kg | | mg/kg | mg/kg | | | | |
| TPH (GC/FID) Low Fraction | U | | 0.0217 | 0.100 | | | | |
| (S) a,a,a-Trifluorotoluene(FID) | 96.8 | | | 77.0-120 | | | | |



Laboratory Control Sample (LCS)

| (LCS) R3609166-1 12/29/20 23:12 | | | | | | | | |
|------------------------------------|--------------|------------|----------|-------------|---------------|--|--|--|
| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier | | | |
| Analyte | mg/kg | mg/kg | % | % | | | | |
| TPH (GC/FID) Low Fraction | 5.50 | 6.01 | 109 | 72.0-127 | | | | |
| (S) a,a,a-Trifluorotoluene(FID) | | | 101 | 77.0-120 | | | | |







L1299139-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1299139-01 12/30/20 01:37 • (MS) R3609166-3 12/30/20 07:49 • (MSD) R3609166-4 12/30/20 08:10

| (00) 21200100 01 1270072 | Spike Amount (dry) | | | , | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits | |
|---------------------------|--------------------|-------|-------|-------|---------|----------|----------|-------------|--------------|---------------|------|------------|--|
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % | |
| TPH (GC/FID) Low Fraction | 203 | U | 208 | 203 | 103 | 100 | 33.8 | 10.0-151 | | | 2.65 | 28 | |
| (S) | | | | | 111 | 111 | | 77.0-120 | | | | | |





ONE LAB. NA Page 125 of 175

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

L1299139-19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38

Method Blank (MB)

| (MB) R3608462-3 12/29/ | (MB) R3608462-3 12/29/20 19:56 | | | | | | | | | | |
|------------------------------------|--------------------------------|--------------|--------|----------|--|--|--|--|--|--|--|
| | MB Result | MB Qualifier | MB MDL | MB RDL | | | | | | | |
| Analyte | mg/kg | | mg/kg | mg/kg | | | | | | | |
| TPH (GC/FID) Low Fraction | U | | 0.0217 | 0.100 | | | | | | | |
| (S) a,a,a-Trifluorotoluene(FID) | 101 | | | 77.0-120 | | | | | | | |





Laboratory Control Sample (LCS)

| (LCS) R3608462-2 12/29 | (LCS) R3608462-2 12/29/20 19:11 | | | | | | | | | | | | |
|------------------------------------|---------------------------------|------------|----------|-------------|---------------|--|--|--|--|--|--|--|--|
| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier | | | | | | | | |
| Analyte | mg/kg | mg/kg | % | % | | | | | | | | | |
| TPH (GC/FID) Low Fraction | 5.50 | 4.79 | 87.1 | 72.0-127 | | | | | | | | | |
| (S) a,a,a-Trifluorotoluene(FID) | | | 104 | 77.0-120 | | | | | | | | | |







L1299139-29 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) I 1299139-29 12/30/20 05:29 • (MS) R3608462-4 12/30/20 09:12 • (MSD) R3608462-5 12/30/20 09:34

| | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits | |
|---------------------------------|--------------------|--------------------------|-----------------|---------------------|---------|----------|----------|-------------|--------------|---------------|------|------------|--|
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % | |
| TPH (GC/FID) Low Fraction | 153 | U | 73.8 | 71.6 | 48.2 | 46.8 | 26.8 | 10.0-151 | | | 3.01 | 28 | |
| (S) a a a-Trifluorotoluene(FID) | | | | | 103 | 103 | | 77.0-120 | | | | | |







ONE LAB. NA Page 126 of 175

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

L1299139-39,40

Method Blank (MB)

| (MB) R3608716-2 12/30/20 00:08 | | | | | | | | | | | |
|------------------------------------|-----------|--------------|--------|----------|--|--|--|--|--|--|--|
| | MB Result | MB Qualifier | MB MDL | MB RDL | | | | | | | |
| Analyte | mg/kg | | mg/kg | mg/kg | | | | | | | |
| TPH (GC/FID) Low Fraction | 0.0915 | <u>J</u> | 0.0217 | 0.100 | | | | | | | |
| (S) a,a,a-Trifluorotoluene(FID) | 98.0 | | | 77.0-120 | | | | | | | |



Laboratory Control Sample (LCS)

| (LCS) R3608716-1 12/29/2 | (LCS) R3608716-1 12/29/20 22:36 | | | | | | | | | | | | |
|------------------------------------|---------------------------------|------------|----------|-------------|---------------|--|--|--|--|--|--|--|--|
| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier | | | | | | | | |
| Analyte | mg/kg | mg/kg | % | % | | | | | | | | | |
| TPH (GC/FID) Low Fraction | 5.50 | 6.12 | 111 | 72.0-127 | | | | | | | | | |
| (S) a,a,a-Trifluorotoluene(FID) | | | 103 | 77.0-120 | | | | | | | | | |





L1299158-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

| 10 | S) I 12001EQ 21 | 12/20/20 15:14 - | (MS) R3608716-3 | 12/20/20 17:11 - / | MCD | D3609716 / | 12/20/20 17:3/ |
|----|-----------------|------------------|-------------------|--------------------|-------|--------------|----------------|
| 10 | 13) L1299130-21 | 12/30/20 13.14 • | (IVIS) R3000/10-3 | 12/30/20 1/.11 • (| שכועו | 1 K30U0/10-4 | 12/30/20 17.34 |

| (03) [1299136-21 12/30/2 | 20 13.14 • (IVIS) R | 3000/10-3 12/ | 30/20 17.11 • (IVI | 3D) K3006/10 | -4 12/30/20 1/ | .54 | | | | | | | |
|------------------------------------|---------------------|--------------------------|--------------------|---------------------|----------------|----------|----------|-------------|--------------|---------------|------|------------|---|
| | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits | |
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % | ı |
| TPH (GC/FID) Low Fraction | 175 | 1.12 | 155 | 149 | 87.7 | 84.3 | 25 | 10.0-151 | | | 3.99 | 28 | |
| (S) a.a.a-Trifluorotoluene(FID) | | | | | 106 | 106 | | 77.0-120 | | | | | |





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Reserve 5 to 9 CB 0 1/30/2021 12:20:27 PM

QUALITY CONTROL SUMMARY

ONE LAB. NA Page 127 of 175 L1299139-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16

PAGE:

64 of 75

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

| Method Blank (N | MB) |
|-----------------|-----|
|-----------------|-----|

| (MB) R3608500-2 12/24/2 | 20 19:23 | | | |
|---------------------------|-----------|--------------|----------|-----------------|
| | MB Result | MB Qualifier | MB MDL | MB RDL |
| Analyte | mg/kg | | mg/kg | mg/kg |
| Benzene | U | | 0.000467 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| (S) Toluene-d8 | 98.3 | | | <i>75.0-131</i> |
| (S) 4-Bromofluorobenzene | 94.3 | | | 67.0-138 |
| (S) 1,2-Dichloroethane-d4 | 99.2 | | | 70.0-130 |
| | | | | |

Laboratory Control Sample (LCS)

| (LCS) R3608500-1 12/24/2 | CS) R3608500-1 12/24/20 18:27 | | | | | | | | | | | | |
|---------------------------|-------------------------------|------------|----------|-------------|---------------|--|--|--|--|--|--|--|--|
| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier | | | | | | | | |
| Analyte | mg/kg | mg/kg | % | % | | | | | | | | | |
| Benzene | 0.125 | 0.129 | 103 | 70.0-123 | | | | | | | | | |
| Ethylbenzene | 0.125 | 0.115 | 92.0 | 74.0-126 | | | | | | | | | |
| Toluene | 0.125 | 0.112 | 89.6 | 75.0-121 | | | | | | | | | |
| Xylenes, Total | 0.375 | 0.336 | 89.6 | 72.0-127 | | | | | | | | | |
| (S) Toluene-d8 | | | 93.1 | 75.0-131 | | | | | | | | | |
| (S) 4-Bromofluorobenzene | | | 106 | 67.0-138 | | | | | | | | | |
| (S) 1.2-Dichloroethane-d4 | | | 106 | 70.0-130 | | | | | | | | | |

L1299139-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

| (OS) L1299139-15 12/25/2 | (OS) L1299139-15 12/25/20 01:25 • (MS) R3608500-3 12/25/20 02:03 • (MSD) R3608500-4 12/25/20 02:22 | | | | | | | | | | | | |
|---------------------------|--|--------------------------|-----------------|---------------------|---------|----------|----------|-------------|--------------|---------------|------|------------|--|
| | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits | |
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % | |
| Benzene | 0.155 | U | 0.0892 | 0.0837 | 57.6 | 54.1 | 1.15 | 10.0-149 | | | 6.34 | 37 | |
| Ethylbenzene | 0.155 | U | 0.0742 | 0.0696 | 47.9 | 44.9 | 1.15 | 10.0-160 | | | 6.43 | 38 | |
| Toluene | 0.155 | U | 0.0763 | 0.0730 | 49.3 | 47.2 | 1.15 | 10.0-156 | | | 4.46 | 38 | |
| Xylenes, Total | 0.463 | U | 0.223 | 0.217 | 48.0 | 46.9 | 1.15 | 10.0-160 | | | 2.44 | 38 | |
| (S) Toluene-d8 | | | | | 94.2 | 94.4 | | 75.0-131 | | | | | |
| (S) 4-Bromofluorobenzene | | | | | 99.7 | 99.2 | | 67.0-138 | | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | | 103 | 101 | | 70.0-130 | | | | | |

Reserve 5 to 9 CB:24/30/2021 12:20:27 PM

QUALITY CONTROL SUMMARY

ONE LAB. NAPage 128 of 175

L1299139-17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32 Volatile Organic Compounds (GC/MS) by Method 8260B

Method Blank (MB)

| (MB) R3608414-2 12/24/2 |) R3608414-2 12/24/20 11:59 | | | | | | | | | | | | |
|---------------------------|-----------------------------|--------------|----------|----------|--|--|--|--|--|--|--|--|--|
| | MB Result | MB Qualifier | MB MDL | MB RDL | | | | | | | | | |
| Analyte | mg/kg | | mg/kg | mg/kg | | | | | | | | | |
| Benzene | U | | 0.000467 | 0.00100 | | | | | | | | | |
| Ethylbenzene | U | | 0.000737 | 0.00250 | | | | | | | | | |
| Toluene | U | | 0.00130 | 0.00500 | | | | | | | | | |
| Xylenes, Total | U | | 0.000880 | 0.00650 | | | | | | | | | |
| (S) Toluene-d8 | 102 | | | 75.0-131 | | | | | | | | | |
| (S) 4-Bromofluorobenzene | 95.6 | | | 67.0-138 | | | | | | | | | |
| (S) 1,2-Dichloroethane-d4 | 91.9 | | | 70.0-130 | | | | | | | | | |
| | | | | | | | | | | | | | |

Laboratory Control Sample (LCS)

| (LCS) R3608414-1 12/24 | 1/20 11:03 | | | | |
|---------------------------|--------------|------------|----------|-------------|---------------|
| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
| Analyte | mg/kg | mg/kg | % | % | |
| Benzene | 0.125 | 0.134 | 107 | 70.0-123 | |
| Ethylbenzene | 0.125 | 0.138 | 110 | 74.0-126 | |
| Toluene | 0.125 | 0.132 | 106 | 75.0-121 | |
| Xylenes, Total | 0.375 | 0.399 | 106 | 72.0-127 | |
| (S) Toluene-d8 | | | 99.9 | 75.0-131 | |
| (S) 4-Bromofluorobenzene | ē | | 92.9 | 67.0-138 | |
| (S) 1,2-Dichloroethane-d4 | | | 100 | 70.0-130 | |



















ONE LAB. NAPagev129 of 175

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

L1299139-33,34,35,36,37,38,39,40

Method Blank (MB)

| (MB) R3608349-2 12/26/2 | 20 09:24 | | | |
|---------------------------|-----------|--------------|----------|----------|
| | MB Result | MB Qualifier | MB MDL | MB RDL |
| Analyte | mg/kg | | mg/kg | mg/kg |
| Benzene | U | | 0.000467 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| (S) Toluene-d8 | 102 | | | 75.0-131 |
| (S) 4-Bromofluorobenzene | 97.2 | | | 67.0-138 |
| (S) 1,2-Dichloroethane-d4 | 80.1 | | | 70.0-130 |
| | | | | |

Laboratory Control Sample (LCS)

| (LCS) R3608349-1 12/26/2 | 20 08:27 | | | | |
|---------------------------|--------------|------------|----------|-------------|---------------|
| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
| Analyte | mg/kg | mg/kg | % | % | |
| Benzene | 0.125 | 0.133 | 106 | 70.0-123 | |
| Ethylbenzene | 0.125 | 0.132 | 106 | 74.0-126 | |
| Toluene | 0.125 | 0.130 | 104 | 75.0-121 | |
| Xylenes, Total | 0.375 | 0.406 | 108 | 72.0-127 | |
| (S) Toluene-d8 | | | 99.3 | 75.0-131 | |
| (S) 4-Bromofluorobenzene | | | 102 | 67.0-138 | |
| (S) 1.2-Dichloroethane-d4 | | | 107 | 70 0-130 | |

L1299198-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

| (OS) L1299198-05 12/26/20 16:52 • (MS) R3608349-3 12/26/20 17:11 • (MSD) R3608349-4 12/26/20 17:30 | | | | | | | | | | | | |
|--|--------------------|--------------------------|-----------------|---------------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|
| | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Benzene | 0.196 | U | 0.161 | 0.152 | 82.1 | 77.3 | 1 | 10.0-149 | | | 6.02 | 37 |
| Ethylbenzene | 0.196 | U | 0.157 | 0.156 | 79.9 | 79.3 | 1 | 10.0-160 | | | 0.715 | 38 |
| Toluene | 0.196 | 0.00293 | 0.167 | 0.161 | 83.9 | 80.6 | 1 | 10.0-156 | | | 3.88 | 38 |
| Xylenes, Total | 0.587 | 0.00144 | 0.489 | 0.469 | 83.2 | 79.6 | 1 | 10.0-160 | | | 4.33 | 38 |
| (S) Toluene-d8 | | | | | 104 | 103 | | 75.0-131 | | | | |
| (S) 4-Bromofluorobenzene | | | | | 94.1 | 96.9 | | 67.0-138 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | | 102 | 97.8 | | 70.0-130 | | | | |

ONE LAB. NA Page 130 of 175

Semi-Volatile Organic Compounds (GC) by Method 8015

L1299139-21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40

Method Blank (MB)

| (MB) R3608171-1 12/29/2 | MB) R3608171-1 12/29/20 20:39 | | | | | | |
|-------------------------|-------------------------------|--------------|--------|----------|--|--|--|
| | MB Result | MB Qualifier | MB MDL | MB RDL | | | |
| Analyte | mg/kg | | mg/kg | mg/kg | | | |
| C10-C28 Diesel Range | U | | 1.61 | 4.00 | | | |
| C28-C40 Oil Range | U | | 0.274 | 4.00 | | | |
| (S) o-Terphenyl | 79.1 | | | 18.0-148 | | | |





Laboratory Control Sample (LCS)

| (LCS) R3608171-2 12/29 | /20 20:52 | | | | |
|------------------------|--------------|------------|----------|-------------|---------------|
| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
| Analyte | mg/kg | mg/kg | % | % | |
| C10-C28 Diesel Range | 50.0 | 41.1 | 82.2 | 50.0-150 | |
| (S) o-Terphenyl | | | 102 | 18.0-148 | |







L1299139-35 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) | 1200130 35 12/20/20 22:38 - (MS) D3608171 3 12/20/20 22:51 - (MSD) D3608171 4 12/20/20 23:05

| (O3) L1233133-33 12/23/20 22.36 • (M3) N3006171-3 12/23/20 22.31 • (M3D) N3006171-4 12/23/20 23.03 | | | | | | | | | | | | | |
|--|--------------------|--------------------------|-----------------|---------------------|---------|----------|----------|-------------|--------------|---------------|-------|------------|--|
| | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits | |
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % | |
| C10-C28 Diesel Range | 54.6 | U | 43.4 | 43.5 | 79.4 | 79.6 | 1 | 50.0-150 | | | 0.252 | 20 | |
| (S) o-Terphenyl | | | | | 90.5 | 93.2 | | 18.0-148 | | | | | |







ONE LAB. NA Page 131 of 175

Semi-Volatile Organic Compounds (GC) by Method 8015 L1299139-01,02,03,04,05,06,07,08,09

Method Blank (MB)

(MB) R3608527-1 12/30/20 18:37

| () | | | | |
|----------------------|-----------|--------------|--------|----------|
| | MB Result | MB Qualifier | MB MDL | MB RDL |
| Analyte | mg/kg | | mg/kg | mg/kg |
| C10-C28 Diesel Range | U | | 1.61 | 4.00 |
| C28-C40 Oil Range | U | | 0.274 | 4.00 |
| (S) o-Terphenyl | 106 | | | 18.0-148 |











| (LCS) R3608527-2 | 12/30/20 19:24 |
|------------------|----------------|
| | |

| (LCS) R3608527-2 12/30 | .S) R3608527-2 12/30/20 19:24 | | | | | | | | | | |
|------------------------|-------------------------------|------------|----------|-------------|---------------|--|--|--|--|--|--|
| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier | | | | | | |
| Analyte | mg/kg | mg/kg | % | % | | | | | | | |
| C10-C28 Diesel Range | 50.0 | 46.0 | 92.0 | 50.0-150 | | | | | | | |
| (S) o-Terphenyl | | | 105 | 18.0-148 | | | | | | | |











(OS) I 1299139-01 12/30/20 22:15 • (MS) R3608527-3 12/30/20 22:28 • (MSD) R3608527-4 12/30/20 22:41

| (00) 21233103 01 12/30 | ` ' | Original Result (dry) | | , | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits | |
|------------------------|-------|--------------------------|-------|-------|---------|----------|----------|-------------|--------------|---------------|-------|------------|--|
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % | |
| C10-C28 Diesel Range | 52.6 | 9.24 | 55.6 | 55.3 | 88.2 | 87.6 | 1 | 50.0-150 | | | 0.569 | 20 | |
| (S) o-Terphenvl | | | | | 88.0 | 88.7 | | 18.0-148 | | | | | |







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ONE LAB. NA Page 132 of 175

Semi-Volatile Organic Compounds (GC) by Method 8015

L1299139-10,11,12,13,14,15,16,17,18,19,20

Method Blank (MB)

| (MB) R3608552-1 12/31 | /20 00:45 | | | |
|-----------------------|-----------|--------------|--------|----------|
| | MB Result | MB Qualifier | MB MDL | MB RDL |
| Analyte | mg/kg | | mg/kg | mg/kg |
| C10-C28 Diesel Range | U | | 1.61 | 4.00 |
| C28-C40 Oil Range | U | | 0.274 | 4.00 |
| (S) o-Terphenyl | 61.1 | | | 18.0-148 |





Laboratory Control Sample (LCS)

| (LCS) R3608552-4 12/3 | /20 06:04 | | | | |
|-----------------------|--------------|------------|----------|-------------|---------------|
| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
| Analyte | mg/kg | mg/kg | % | % | |
| C10-C28 Diesel Range | 50.0 | 37.0 | 74.0 | 50.0-150 | |
| (S) o-Terphenyl | | | 78.1 | 18.0-148 | |









| (03) [1299139-10 12/3] | . , | Original Result (dry) | • | • | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|------------------------|-------|--------------------------|-------|-------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| C10-C28 Diesel Range | 52.3 | U | 34.8 | 38.2 | 66.6 | 73.0 | 1 | 50.0-150 | | | 9.17 | 20 |
| (S) o-Terphenyl | | | | | 79.9 | 68.8 | | 18.0-148 | | | | |





Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

| Appleviations and | 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. |
| | |

| Qual | lifior | \Box | escri) | ntion |
|------|--------|--------|--------|-------|
| Qual | illei | ᆫ | VE2CII | Puon |

| В | The same analyte is found in the associated blank. |
|----|---|
| Е | 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. |
| J1 | Surrogate recovery limits have been exceeded; values are outside upper control limits. |





















Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

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

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

State Accreditations

| Alabama | 40660 |
|------------------------|-------------|
| Alaska | 17-026 |
| Arizona | AZ0612 |
| Arkansas | 88-0469 |
| California | 2932 |
| Colorado | TN00003 |
| Connecticut | PH-0197 |
| Florida | E87487 |
| Georgia | NELAP |
| Georgia ¹ | 923 |
| Idaho | TN00003 |
| Illinois | 200008 |
| Indiana | C-TN-01 |
| lowa | 364 |
| Kansas | E-10277 |
| Kentucky 16 | KY90010 |
| Kentucky ² | 16 |
| Louisiana | Al30792 |
| Louisiana ¹ | LA180010 |
| Maine | TN00003 |
| Maryland | 324 |
| Massachusetts | M-TN003 |
| Michigan | 9958 |
| Minnesota | 047-999-395 |
| Mississippi | TN00003 |
| Missouri | 340 |
| Montana | CERT0086 |
| | |

| Nebraska | NE-OS-15-05 |
|-----------------------------|------------------|
| Nevada | TN000032021-1 |
| New Hampshire | 2975 |
| New Jersey–NELAP | TN002 |
| New Mexico ¹ | TN00003 |
| New York | 11742 |
| North Carolina | Env375 |
| North Carolina ¹ | DW21704 |
| North Carolina ³ | 41 |
| North Dakota | R-140 |
| Ohio-VAP | CL0069 |
| Oklahoma | 9915 |
| Oregon | TN200002 |
| Pennsylvania | 68-02979 |
| Rhode Island | LAO00356 |
| South Carolina | 84004 |
| South Dakota | n/a |
| Tennessee 1 4 | 2006 |
| Texas | T104704245-20-18 |
| Texas ⁵ | LAB0152 |
| Utah | TN00003 |
| Vermont | VT2006 |
| Virginia | 460132 |
| Washington | C847 |
| West Virginia | 233 |
| Wisconsin | 998093910 |
| Wyoming | A2LA |
| | |

Third Party Federal Accreditations

| A2LA – ISO 17025 | 1461.01 |
|--------------------|---------|
| A2LA - ISO 17025 5 | 1461.02 |
| Canada | 1461.01 |
| EPA-Crypto | TN00003 |

| AIHA-LAP,LLC EMLAP | 100789 |
|--------------------|---------------|
| DOD | 1461.01 |
| USDA | P330-15-00234 |

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

Our Locations

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



















| TE | Tetra Tech, Inc. | | | | Coc Bot Cor Suf | tles rect fici | ned/ arr bot | Acc ive tle vol | nt/In urate int s us | ntact: e: act: ed: sent: | Y_ | N | VOA | Zero | Ap He | plic adsp | pace | : | Y_ Y_ | N | | | | | | 18 |
|--------------------------------------|---|--|----------|-------|--------------------------|----------------------|--------------------|--------------------------|-------------------------------|--------------------------------------|----------|---|---------------------|------|--------------|--------------|-----------------------------|------|------------|------------|-------------------|----------|------------------|-------------|---------------|------|
| Client Name: | Conoco Phillips | Site Manage | er: | Ch | ristia | n Llul | 1 | - | | | | ANALYSIS REQUEST (Circle or Specify Method No.) | | | | | | | | | | | | | | |
| Project Name: | James A #12 Injection Line Release, AoC 7143 | Contact Info: Email: christian.llull@tetratech.com Phone: (512) 338-1667 | | | | | | | | 1 | 1 | 1 | (Ci | rcle | 0 | rS | pe | cify | / M | ethe | od I | No. |) | | | |
| Project Location: (county, state) | ct Location: Lea County, New Mexico | | | 212 | 2C-M | D-02 | 366 | | | | | | | | | | | | | | | | | | | |
| Invoice to: | Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79 | 701 | | | | | | | | | | | | | | | | | | | | | | list) | | |
| Receiving Laboratory: | Pace Analytical | Sampler Sig | gnature: | | Joe ' | Tyler | | | | | | | OGW | | Se Hg | Se Hg | | | | | | | | attached li | | |
| Comments: COPTETF | RA Acctnum | | | | | | | | | | | 8260B | TX1005 (Ext to C35) | | Sr Pb | Cd Cr Pb | | | 24 | 8270C/625 | | | TDS | (see | | |
| 1299 139 | | SAME | LING | M | ATRI | x P | | RV | ATIV | | Î | BTEX | (Ext to C | | As Ba (| As Ba | iles | | 0B / 624 | | 0 | | | E | ance | |
| LAB# | SAMPLE IDENTIFICATION | YEAR: 2020 | | | | T | | | | INE | D (Y/N) | 118 | 005 (E) | 0 | Ag | Ag | Volatiles Semi Volatiles | | 1 00 | Semi. Vol. | 8082 / 608 | sbestos) | 300.0 Sulfate | Water Cl | on Bala | |
| (LAB USE) | | DATE | TIME | WATER | SOIL | HCL | HNO ₃ | ICE | NONE | # CONTAINERS | FILTERED | 1× | TPH TX1005 | | Fotal Metals | CLP Metals | | | GC/MS Vol. | SC/MS Sel | PCB's 808 NORM | 5 | Chloride 30 | seneral Wa | nion/Cation B | НОГР |
| 01 | BH-1 (0'-1') | 12/16/20 | 1000 | | X | | | X | | 1 | N | X |) | - | | | | | | | 1 2 | | X | 0 | A F | T |
| 02 | BH-1 (2'-3') | 12/16/20 | 1010 | | X | | | Х | | 1 | N | X |) | | | | | | | | | | X | - | | |
| 03 | BH-1 (4'-5') | 12/16/20 | 1020 | | X | | | X | | 1 | N | X |) | | | | | | | | | | X | | | |
| 87 | BH-1 (6'-7') | 12/16/20 | 1030 | | X | | | X | | 1 | N | X |) | | | | | | | | | | X | | | |
| 05 | BH-1 (9'-10') | 12/16/20 | 1040 | | X | | | Х | | 1 | N | X |) | | | | | | | | | | X | П | | |
| ا ا | BH-1 (14'-15') | 12/16/20 | 1050 | | X | | | X | | 1 | N | X |) | | | | | | | | | | X | | | |
| 07 | BH-1 (19'-20') | 12/16/20 | 1100 | | X | | | X | | 1 | N | X |) | | | | | | | | | П | X | | | |
| £0 T | BH-1 (24'-25') | 12/16/20 | 1120 | | X | | | X | | 1 | N | X |) | | | | | | | | | | X | | | |
| 9 | BH-1 (29'-30') | 12/16/20 | 1140 | | Х | | | X | | 1 | N | X |) | | | | | | | | | П | X | | | |
| 6 | / BH-1 (34'-35') | 12/16/20 | 1200 | | Х | | | X | | 1 | N | X |) | | | | | | | | | \Box | x | | | |
| elinquished by: | Tylor 12.18.20 13:00 | | He | | 6 | | te: | 2: | , 1 | Time | | | | B US | | F | REMA | Sta | | d | | | | | | |
| Met | Date: Time: (2.8.2) (6.3) | Received by: | + _ | | 12 | B. | ite: | | | Time | e: | Sam | ple T | empe | ratur | е | _ | | | | | 24 h | | 3 hr. | 72 hr. | |
| elinquished by: | Date: Time: | Received by: | 1 | | | Da | | 1 | 1 | Time | | | 1 | 1 | | | | | | | | its or T | | Report | | |
| | | ORIGINA | LCOPY | | | 10 | 16 | 1 | | 0 | | (Circ | ele) I | HAND | DE | LIVER | RED | FEI | DEX | UP | S T | rackin | g #: _ | | | 1 |
| eleased to Imaging: | 8/17/2021 1:42:56 PM | / | | | | | 1 | | | | | | | | 1 | | , | 5 | 北 | 22 | | 5, | tu | y | | |

| Page | 136 | of | 175 |
|------|-----|----|-----|
| - | | | |

| Project Name: James A #12 Injection Line Release, AoC 7143 Contact Info: Email: christian.llull@tetratech.com Phone: (512) 338-1667 | TCLP Semi Volatiles TCLP Semi Volatiles RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 CC/MS Semi. Vol. | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| Project Name: James A #12 Injection Line Release, AoC 7143 Contact Info: Email: cinstala.illul@fetratech.com Phone: (512) 338-1667 Project Location: (county, state) Lea County, New Mexico Project #: 212C-MD-02366 Project #: 21 | 625 (see attached list) | | | | | | | |
| County, state Cac County, New Mexico | les B / 624 8270C/625 8270C/625 r TDS emistry (see attached list) | | | | | | | |
| Receiving Laboratory: Pace Analytical Sampler Signature: Joe Tyler | B / 624 8270C/625 TDS emistry (see attached list) nce | | | | | | | |
| DATE TIME | B / 624 8270C/625 TDS emistry (see attached nce | | | | | | | |
| DATE TIME | B / 624 8270C/625 TDS emistry (see att | | | | | | | |
| DATE TIME | B / 62. 8270 8270 ince | | | | | | | |
| DATE TIME | = 0 = 0 2 c a | | | | | | | |
| DATE TIME | irres ir Volatilie mi. Vol. i2 / 608 stos) 00.0 Sulfate after Che on Balan | | | | | | | |
| BH-1 (39'-40') 12/16/20 1220 X X X 1 N X X X X X X X X X | TCLP Semi Volatiles RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C PCB's 8082 / 608 NORM NORM CAbestos) Chloride 300.0 Chloride Sulfate TDS General Water Chemistry Anion/Cation Balance TPH 8015R | | | | | | | |
| 13 BH-1 (49'-50') 12/16/20 1300 X X X 1 N X X 1 M X X M M M M M M M | X X | | | | | | | |
| 14 BH-2 (0'-1') 12/16/20 1310 X X 1 N X X IS BH-2 (2'-3') 12/16/20 1320 X X X X X | X | | | | | | | |
| 15 BH-2 (2'-3') 12/16/20 1320 X X 1 N X X | X | | | | | | | |
| | X | | | | | | | |
| A DELO (ALE) | X | | | | | | | |
| BH-2 (4'-5') 12/16/20 1330 X X X X | X | | | | | | | |
| M BH-2 (6'-7') 12/16/20 1340 X X 1 N X X | x | | | | | | | |
| R BH-2 (9'-10') 12/16/20 1350 X X X 1 N X X | X | | | | | | | |
| BH-2 (14'-15') 12/16/20 1400 X X X 1 N X X | x | | | | | | | |
| 7 BH-2 (19'-20') 12/16/20 1410 X X 1 N X X | x | | | | | | | |
| The 14/2 12.18.23 13:00 10 11 12.18.23 Bics ONLY X | REMARKS: X Standard | | | | | | | |
| Date: Time: Received by: Date: Time: Sample Temperature | RUSH: Same Day 24 hr. 48 hr. 72 hr. | | | | | | | |
| | Rush Charges Authorized | | | | | | | |
| Time. | Special Report Limits or TRRP Report | | | | | | | |

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Page 137 of 175
Page: 3 of 4

| TŁ | | Tetra Tech, Inc | 2. | | 901 | Mic | dland el (4 | all Str I, Texa 32) 68 32) 68 | as 79 | 701 59 | 00 | | | | | | | | | | | | | | | | | | |
|----------------------------------|---------|--|------------|--------------------------------------|---------|------|----------------|--|--------|--------------|--------------|----------------|-------|-------------------------|-----------|------------|-------------------------------------|------------------------------------|--------|------------|--------------------------------------|-----------|----------------|---------------|-------------------------|----------------------|-----------|------|--|
| Client Name: | | Conoco Phillips | | Site Manage | er: | Chr | istian | Llul | 1 | | | | | | | | | | | ALY | | | | | | | | | |
| Project Name: | | James A #12 Injection Line Release, AoC 7 | 143 | Contact Info | | | | | ull@te | | ch.cor | n | 1 | 1 | 1 | Cir | cle | 01 | Sp | ec | ify | Me | tho | b | No. |) | | | |
| Project Location (county, state) | 1: | Lea County, New Mexico | | Project #: | 212 | C-ME |)-02 | 366 | | | | | | | | | | | | | | | | | | | | | |
| Invoice to: | | Accounts Payable 901 West Wall Street, Suite 100 Midland, T | exas 79701 | | | | | | | | | | | | 1 | | | | | | | | | | | l list) | | | |
| Receiving Labor | ratory: | Pace Analytical | | Sampler Sig | nature: | | Joe Tyler | | | | | | | | COM COC | | Se Hg | Se Hç | | | | | | | | (see attached | | | |
| Comments: (| COPTETR | A Acctnum | | | | | | | | | | | | 8260B | | | otal Metals Ag As Ba Cd Cr Pb Se Hg | CLP Metals Ag As Ba Cd Cr Pb Se Hg | | | 624 | 8270C/625 | | | TDS | | | | |
| 1299139 | | | | SAMP | LING | MA | ATRIX | P | | ERVA ETHO | | | (Z | BTEX | (Ext to C | | As Ba | As Ba | atiles | | | | | | | Chemis | lance | | |
| LAB# | | SAMPLE IDENTIFICATION | | YEAR: 2020 | | | | T | | | | AINE | Y) Q: | 8021B | 005 (E | 00 | als Ag | als Ag | ni Vok | | 01. 82 | 82 / 6 | | social social | Sulfate | /ater (| ion Ba | r | |
| (LAB USE ONLY) | | | | DATE | WATER | SOIL | E | HNO3 | ICE | NONE | # CONTAINERS | FILTERED (Y/N) | | TPH TX1005 (Ext to C35) | PAH 8270C | Total Meta | TCLP Metals / | TCLP Semi Volatiles | RCI | GC/MS Vol. | GC/MS Semi. Vol. PCB's 8082 / 608 | NORM | PLM (Asbestos) | Chloride | General Water Chemistry | Anion/Cation Balance | 1PH 8015H | НОГР | |
| 21 | | BH-2 (24'-25') | | 12/16/20 | 1420 | | X | | | Х | | 1 | N | X |) | (| | | | | | | |) | (| | | | |
| 22 | | BH-2 (29'-30') | | 12/16/20 | 1440 | | X | | | X | | 1 | N | X |) | (| | | | | | | |) | (| | | | |
| 23 | | BH-2 (34'-35') | | 12/16/20 | 1500 | | X | | | X | | 1 | N | X |) | | | | | | | | |) | (| | | | |
| 24 | | BH-2 (39'-40') | | 12/16/20 | 1520 | | X | | | X | | 1 | N | X |) | (| | | | | | | |) | (| | | | |
| 25 | | BH-3 (0'-1') | | 12/16/20 | 1600 | | X | | | X | | 1 | N | X |) | (| | | | | | | |) | (| | | | |
| 26 | | BH-3 (2'-3') | | 12/16/20 | 1610 | | X | | | X | | 1 | N | X |) | (| | | | | | | |) | (| | | | |
| 27 | | BH-3 (4'-5') | | 12/16/20 | 1620 | | X | | | X | | 1 | N | X |) | (| | | | | | | |) | (| | | | |
| य | | BH-3 (6'-7') | | 12/16/20 | 1630 | | X | | | X | | 1 | N | X |) | < | | | | | | | |) | < | | | | |
| 29 | | BH-4 (0'-1') | | 12/16/20 | 1640 | | X | | | X | | 1 | N | X | 2 | < | | | | | | | |) | < | | | | |
| 20 | | BH-4 (2'-3') | | 12/16/20 | 1650 | | X | | | X | | 1 | N | X |) | (| | | | | | | |) | (| | | | |
| Relinquished by: | te | Date: Time 12. (8.20 14 | 3:00 | Received by | te/ |) | 12 | | ate: | 3 | (| Time 3: | | | | B US | | F | | Sta | ndaro | | | | | | | | |
| Relinguished by: | . / | Date: Time | : | Received by: | | | 1 - | | ate: | | , | Tim | | Sam | ple T | empe | ratur | е | | RU | SH: | Same | Day | 24 h | . 48 | 3 hr. | 72 hr | | |
| Relinquished by: | n | | 6:30 | SUA 12.18.20 (63 | | | | | - | | | | | | Rus | sh Ch | arges | Autho | rized | | | | | | | | | | |
| neiinquisnea by: | | Date: Time | | Received by: Date: Time: 12/R 104< | | | | | | | | | | Spe | ecial I | Report | Limits | or TI | RRP F | Report | 1 | | | | | | | | |

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Page 138 of 175
Page: 4 of 4

| TŁ | Tetra Tech, Inc. | | | | Midla Tel | nd, T (432) | Street exas 7 682-4) 682-3 | 7970 | 1 | 0 | | | | | | | | | | | | | | | | | |
|--------------------------------------|--|--------------|---------|-------|--------------|---|--------------------------------------|---------|-------|--------------|----------------|-------|--|-------------------------|-------------------------------------|-------------|---------------|---|------------------------|------------------|------------|------|----------------------------------|----------|-----------|---------------------------|------|
| Client Name: | Conoco Phillips | Site Manage | er: | Chr | ristian | Llull | | | | | | | | | | | | NALYSIS REQUEST or Specify Method No.) | | | | | | | | | |
| Project Name: | James A #12 Injection Line Release, AoC 7143 | Contact Info |): | | ail: chi | | | @tetrat | tech. | com | | 1 | 1 | 1 | (Ci | rcl | e c | or S | Spe | ecit | fy I | Me | tho | d N | lo.) | | - |
| Project Location: (county, state) | Lea County, New Mexico | Project #: | | 212 | C-MD | -0236 | 6 | | | | | | | | | | | | | | | | | | | | |
| Invoice to: | Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 797 | 01 | | | | | | | | | | | 6 | | | | | | | | | | | | list) | | |
| Receiving Laborato | ry: Pace Analytical | Sampler Sig | nature: | | Joe T | yler | | | | | | | MB. | | Se Hg | Se Hg | | | | | | | | | attached | | |
| Comments: COP | TETRA Acctnum | | | | | | | | | | | 8260B | (Ext to C35) | | otal Metals Ag As Ba Cd Cr Pb Se Hg | Cd Cr Pb | | | 24 | 8270C/625 | | | | TDS | (see | | |
| 1299139 | | SAMPLING | | | | | | | | 38 | î | BTEX | TX1005 (Ext to C35) | | As Ba | As Ba | | tiles | OB / 62 | 01. 827 | | | | | Chemistry | Balance | |
| LAB# | SAMPLE IDENTIFICATION | YEAR: 2020 | | | | П | | | ٦ | AINE | ED (Y) | 8021B | TX1005 (E | | als Ag | als Ag | atiles | ni Vola | 826 | emi. Vc | 8082 / 608 | | bestos) | Sulfate | Water C | ion ba | |
| (LAB USE) | | DATE | TIME | WATER | SOIL | HCL | HNO3 | NONE | | # CONTAINERS | FILTERED (Y/N) | | TPH TX1 | PAH 8270C | Total Meta | TCLP Metals | TCLP Volatile | TCLP Semi Volatiles | GC/MS Vol. 8260B / 624 | GC/MS Semi. Vol. | PCB's 80 | NORM | PLM (Asbestos) Chloride 300.0 | Chloride | General M | Anion/Cation TPH 8015R | НОГР |
| 31 | BH-4 (4'-5') | 12/16/20 | 1700 | | X | |) | X | | 1 | N | Х | > | | | | | | | | | | X | | | | |
| 32 | BH-4 (6'-7') | 12/16/20 | 1710 | | X | |) | X | | 1 | N | Х |) | | | | | | | | | | × | | | | |
| 33 | BH-5 (0'-1') | 12/16/20 | 1720 | | X | |) | X | | 1 | N | Х | > | | | | | | | | - | | X | | | | |
| 34 | BH-5 (2'-3') | 12/16/20 | 1730 | | X | |) | X | | 1 | N | X |) | | | | | | | | | | × | | | | |
| 35 | BH-5 (4'-5') | 12/16/20 | 1740 | | X | |) | × | | 1 | N | Х |) | | | | | | | | | | × | | | | |
| 76 | BH-5 (6'-7') | 12/16/20 | 1750 | | X | |) | X | | 1 | N | Х |) | | | | | | | | | | X | | | | |
| 37 | BH-6 (0'-1') | 12/16/20 | 1800 | | X | |) | X | | 1 | N | Х |) | | | | | | | | | | × | | | | |
| 32 | BH-6 (2'-3') | 12/16/20 | 1810 | | X | |) | X | | 1 | N | X |) | | | | | | | | | | × | | | | |
| 29 | BH-6 (4'-5') | 12/16/20 | 1820 | | X | |) | X | 1 | 1 | N | X |) | | | | | | | | | | × | | | | |
| Yo | BH-6 (6'-7') | 12/16/20 | 1830 | | X | | | X | | 1 | N | Х |) | | | Ц | | | | | | | X | | | | |
| Relinquished by: | Date: Time: Date: Time: Date: Time: | Received by | He | | | Date | -2 | | 13 | ime: | | Sam | Ample Temperature REMARKS: X Standard RUSH: Same Day 24 hr. 48 hr. 72 hr. | | | | | | | | | | | | | | |
| Confl | 1 218.23 633 | 100 | 1+ | | 12 | .18 | | 0 | 16 | 0.5 | 29 | | | Rush Charges Authorized | | | | | | | | | | | | | |
| Relinq ui shed by: | Date: Time: | Received by | // | | 10 | Date: Time: Special Report Limits or TRRP Report | | | | | | | | | | | | | | | | | | | | | |
| | | ORIGINA | COPY | | | 1 | / | | | | | (Cir | cle) | HAN | D DE | LIVE | REC |) F | EDE | χι | JPS | Tra | acking | #: _ | | | |
| Released to Imag | ging: 8/17/2021 1:42:56 PM | 0 | | | | | | | | | | | | | | | 5 | to | ツニ | - 6 | 57 | E | M | | | | |



ANALYTICAL REPORT

March 10, 2021





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ConocoPhillips - Tetra Tech

Sample Delivery Group: L1322293 Samples Received: 03/03/2021

Project Number: 212C-MD-02366

Description: James A #12 Flowline

Report To: Chrisian Llull

901 West Wall

Suite 100

Midland, TX 79701

Entire Report Reviewed By:

Enica Mc Neese

Erica McNeese Project Manager

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

12065 Lebanon Rd

| Cp: Cover Page | 1 |
|---|----|
| Tc: Table of Contents | 2 |
| Ss: Sample Summary | 3 |
| Cn: Case Narrative | 4 |
| Sr: Sample Results | 5 |
| BH 7 (0'-1') L1322293-01 | 5 |
| BH 7 (2'-3') L1322293-02 | 6 |
| BH 8 (0-1') L1322293-03 | 7 |
| BH 8 (2-3') L1322293-04 | 8 |
| Qc: Quality Control Summary | 9 |
| Total Solids by Method 2540 G-2011 | 9 |
| Wet Chemistry by Method 300.0 | 11 |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | 12 |
| Volatile Organic Compounds (GC/MS) by Method 8260B | 13 |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | 14 |
| GI: Glossary of Terms | 15 |
| Al: Accreditations & Locations | 16 |
| Sc: Sample Chain of Custody | 17 |



















| | | | 0.11. | | | |
|---|-----------|----------|-------------------------------|------------------------------------|--------------|----------------|
| DI 17 (0141) 14000000 04 0 1: 1 | | | Collected by Adrian Garcia | Collected date/time 03/01/21 08:00 | 03/03/21 08: | |
| BH 7 (0'-1') L1322293-01 Solid | | | Adrian Garcia | 03/01/21 08.00 | 03/03/21 00. | |
| Method | Batch | Dilution | Preparation | Analysis | Analyst | Location |
| | | | date/time | date/time | | |
| Total Solids by Method 2540 G-2011 | WG1630042 | 1 | 03/06/21 15:53 | 03/06/21 16:02 | CMK | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1629492 | 1 | 03/04/21 13:56 | 03/04/21 16:46 | MCG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1630945 | 1 | 03/03/21 19:58 | 03/08/21 07:47 | TPR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1629391 | 1 | 03/03/21 19:58 | 03/04/21 14:28 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1630389 | 1 | 03/06/21 07:33 | 03/06/21 21:11 | JN | Mt. Juliet, TN |
| | | | Collected by | Collected date/time | Received da | te/time |
| BH 7 (2'-3') L1322293-02 Solid | | | Adrian Garcia | 03/01/21 08:30 | 03/03/21 08: | 00 |
| Method | Batch | Dilution | Preparation | Analysis | Analyst | Location |
| | | | date/time | date/time | | |
| Total Solids by Method 2540 G-2011 | WG1630042 | 1 | 03/06/21 15:53 | 03/06/21 16:02 | CMK | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1629492 | 1 | 03/04/21 13:56 | 03/04/21 16:56 | MCG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1630945 | 1 | 03/03/21 19:58 | 03/08/21 08:10 | TPR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1629391 | 1 | 03/03/21 19:58 | 03/04/21 14:47 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1630389 | 1 | 03/06/21 07:33 | 03/07/21 21:29 | JN | Mt. Juliet, TN |
| | | | Collected by | Collected date/time | Received da | te/time |
| BH 8 (0-1') L1322293-03 Solid | | | Adrian Garcia | 03/01/21 09:00 | 03/03/21 08: | 00 |
| Method | Batch | Dilution | Preparation | Analysis | Analyst | Location |
| | | | date/time | date/time | | |
| Total Solids by Method 2540 G-2011 | WG1630042 | 1 | 03/06/21 15:53 | 03/06/21 16:02 | CMK | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1629492 | 1 | 03/04/21 13:56 | 03/04/21 17:05 | MCG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1630945 | 1 | 03/03/2119:58 | 03/08/21 08:33 | TPR | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG1629391 | 1 | 03/03/2119:58 | 03/04/2115:06 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1630389 | 1 | 03/06/21 07:33 | 03/06/21 21:37 | JN | Mt. Juliet, TN |
| | | | Collected by | Collected date/time | Received da | te/time |
| BH 8 (2-3') L1322293-04 Solid | | | Adrian Garcia | 03/01/21 09:30 | 03/03/21 08: | 00 |
| Method | Batch | Dilution | Preparation | Analysis | Analyst | Location |
| T + 16 1:1 1 M + 1 10540 6 2044 | W04600040 | | date/time | date/time | Ch 41/ | A4. 1 1 |
| Total Solids by Method 2540 G-2011 | WG1630043 | 1 | 03/06/21 15:08 | 03/06/21 15:51 | CMK | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0 | WG1629492 | 1 | 03/04/21 13:56 | 03/04/21 17:34 | MCG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1630945 | 1 | 03/03/21 19:58 | 03/08/2110:45 | TPR | Mt. Juliet, TN |



















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

Semi-Volatile Organic Compounds (GC) by Method 8015

WG1629391

WG1630389

1

1

03/03/2119:58

03/06/21 07:33

03/04/21 15:25

03/06/21 21:50

JAH

JN

Mt. Juliet, TN

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.

Enica Mc Neese

Erica McNeese Project Manager

















ONE LAB. NAPage 143 of 175

Collected date/time: 03/01/21 08:00

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | <u>Batch</u> |
|--------------|--------|-----------|----------|------------------|--------------|
| Analyte | % | | | date / time | |
| Total Solids | 96.0 | | 1 | 03/06/2021 16:02 | WG1630042 |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 121 | | 9.58 | 20.8 | 1 | 03/04/2021 16:46 | WG1629492 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0328 | ВЈ | 0.0226 | 0.104 | 1 | 03/08/2021 07:47 | WG1630945 |
| (S) a,a,a-Trifluorotoluene(FID) | 93.0 | | | 77.0-120 | | 03/08/2021 07:47 | WG1630945 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000506 | 0.00108 | 1 | 03/04/2021 14:28 | WG1629391 |
| Toluene | U | | 0.00141 | 0.00542 | 1 | 03/04/2021 14:28 | WG1629391 |
| Ethylbenzene | U | | 0.000798 | 0.00271 | 1 | 03/04/2021 14:28 | WG1629391 |
| Total Xylenes | U | | 0.000953 | 0.00704 | 1 | 03/04/2021 14:28 | WG1629391 |
| (S) Toluene-d8 | 97.8 | | | 75.0-131 | | 03/04/2021 14:28 | WG1629391 |
| (S) 4-Bromofluorobenzene | 98.1 | | | 67.0-138 | | 03/04/2021 14:28 | WG1629391 |
| (S) 1,2-Dichloroethane-d4 | 91.8 | | | 70.0-130 | | 03/04/2021 14:28 | WG1629391 |



| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 14.0 | | 1.68 | 4.17 | 1 | 03/06/2021 21:11 | WG1630389 |
| C28-C40 Oil Range | 68.0 | | 0.285 | 4.17 | 1 | 03/06/2021 21:11 | WG1630389 |
| (S) o-Terphenyl | 58.0 | | | 18.0-148 | | 03/06/2021 21:11 | WG1630389 |



Collected date/time: 03/01/21 08:30

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|-----------|
| Analyte | % | | | date / time | |
| Total Solids | 95.3 | | 1 | 03/06/2021 16:02 | WG1630042 |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 10.8 | J | 9.65 | 21.0 | 1 | 03/04/2021 16:56 | WG1629492 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.122 | В | 0.0228 | 0.105 | 1 | 03/08/2021 08:10 | WG1630945 |
| (S) a,a,a-Trifluorotoluene(FID) | 93.3 | | | 77.0-120 | | 03/08/2021 08:10 | WG1630945 |



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

| 9 | 1 \ | , , | ' | | | | |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000513 | 0.00110 | 1 | 03/04/2021 14:47 | WG1629391 |
| oluene | U | | 0.00143 | 0.00549 | 1 | 03/04/2021 14:47 | WG1629391 |
| Ethylbenzene | U | | 0.000810 | 0.00275 | 1 | 03/04/2021 14:47 | WG1629391 |
| otal Xylenes | U | | 0.000967 | 0.00714 | 1 | 03/04/2021 14:47 | WG1629391 |
| (S) Toluene-d8 | 96.9 | | | 75.0-131 | | 03/04/2021 14:47 | WG1629391 |
| (S) 4-Bromofluorobenzene | 100 | | | 67.0-138 | | 03/04/2021 14:47 | WG1629391 |
| (S) 1,2-Dichloroethane-d4 | 95.3 | | | 70.0-130 | | 03/04/2021 14:47 | WG1629391 |

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| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 6.04 | | 1.69 | 4.20 | 1 | 03/07/2021 21:29 | WG1630389 |
| C28-C40 Oil Range | 23.5 | | 0.287 | 4.20 | 1 | 03/07/2021 21:29 | WG1630389 |
| (S) o-Terphenyl | 56.2 | | | 18.0-148 | | 03/07/2021 21:29 | WG1630389 |

SAMPLE RESULTS - 03



Collected date/time: 03/01/21 09:00

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|-----------|
| Analyte | % | | | date / time | |
| Total Solids | 96.1 | | 1 | 03/06/2021 16:02 | WG1630042 |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 30.6 | | 9.57 | 20.8 | 1 | 03/04/2021 17:05 | WG1629492 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0403 | BJ | 0.0226 | 0.104 | 1 | 03/08/2021 08:33 | WG1630945 |
| (S) a,a,a-Trifluorotoluene(FID) | 95.9 | | | 77.0-120 | | 03/08/2021 08:33 | WG1630945 |



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

| | | | • | | | | |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| <u> </u> | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000505 | 0.00108 | 1 | 03/04/2021 15:06 | WG1629391 |
| Toluene | U | | 0.00140 | 0.00540 | 1 | 03/04/2021 15:06 | WG1629391 |
| Ethylbenzene | U | | 0.000796 | 0.00270 | 1 | 03/04/2021 15:06 | WG1629391 |
| Total Xylenes | U | | 0.000951 | 0.00702 | 1 | 03/04/2021 15:06 | WG1629391 |
| (S) Toluene-d8 | 96.9 | | | 75.0-131 | | 03/04/2021 15:06 | WG1629391 |
| (S) 4-Bromofluorobenzene | 104 | | | 67.0-138 | | 03/04/2021 15:06 | WG1629391 |
| (S) 1,2-Dichloroethane-d4 | 98.1 | | | 70.0-130 | | 03/04/2021 15:06 | WG1629391 |
| | | | | | | | |



Semi-Volatile Organic Compounds (GC) by Method 8015

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 4.42 | | 1.67 | 4.16 | 1 | 03/06/2021 21:37 | WG1630389 |
| C28-C40 Oil Range | 22.7 | | 0.285 | 4.16 | 1 | 03/06/2021 21:37 | WG1630389 |
| (S) o-Terphenyl | 72.7 | | | 18.0-148 | | 03/06/2021 21:37 | WG1630389 |

SAMPLE RESULTS - 04



Collected date/time: 03/01/21 09:30

Total Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | <u>Batch</u> |
|--------------|--------|-----------|----------|------------------|--------------|
| Analyte | % | | | date / time | |
| Total Solids | 97.6 | | 1 | 03/06/2021 15:51 | WG1630043 |



Wet Chemistry by Method 300.0

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|----------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Chloride | 12.6 | <u>J</u> | 9.42 | 20.5 | 1 | 03/04/2021 17:34 | WG1629492 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPH (GC/FID) Low Fraction | 0.0535 | ВЈ | 0.0222 | 0.102 | 1 | 03/08/2021 10:45 | WG1630945 |
| (S) a,a,a-Trifluorotoluene(FID) | 94.8 | | | 77.0-120 | | 03/08/2021 10:45 | WG1630945 |



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

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | <u>Batch</u> |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|--------------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| Benzene | U | | 0.000490 | 0.00105 | 1 | 03/04/2021 15:25 | WG1629391 |
| Toluene | U | | 0.00136 | 0.00524 | 1 | 03/04/2021 15:25 | WG1629391 |
| Ethylbenzene | U | | 0.000773 | 0.00262 | 1 | 03/04/2021 15:25 | WG1629391 |
| Total Xylenes | U | | 0.000923 | 0.00682 | 1 | 03/04/2021 15:25 | WG1629391 |
| (S) Toluene-d8 | 94.6 | | | 75.0-131 | | 03/04/2021 15:25 | WG1629391 |
| (S) 4-Bromofluorobenzene | 103 | | | 67.0-138 | | 03/04/2021 15:25 | WG1629391 |
| (S) 1,2-Dichloroethane-d4 | 98.6 | | | 70.0-130 | | 03/04/2021 15:25 | WG1629391 |



Semi-Volatile Organic Compounds (GC) by Method 8015

| | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | mg/kg | | date / time | |
| C10-C28 Diesel Range | 6.76 | | 1.65 | 4.10 | 1 | 03/06/2021 21:50 | WG1630389 |
| C28-C40 Oil Range | 22.2 | | 0.281 | 4.10 | 1 | 03/06/2021 21:50 | WG1630389 |
| (S) o-Terphenyl | 63.8 | | | 18.0-148 | | 03/06/2021 21:50 | WG1630389 |

ONE LAB. NA Page 147. of 175

Total Solids by Method 2540 G-2011

L1322293-01,02,03

Method Blank (MB)

Total Solids

| (MB) R3628411-1 03/0 | 06/21 16:02 | | | |
|----------------------|-------------|--------------|--------|--------|
| | MB Result | MB Qualifier | MB MDL | MB RDL |
| Analyte | % | | % | % |
| Total Solids | 0.000 | | | |

³Ss

[†]Cn

L1322287-10 Original Sample (OS) • Duplicate (DUP)

83.5

1.13

84.4

| (OS) L1322287-10 03/06/ | /21 16:02 • (DUP) | R3628411-3 (| 33/06/2116 | 5:02 | | |
|-------------------------|-------------------|--------------|------------|---------|---------------|-------------------|
| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
| Δnalvte | % | % | | % | | % |

10



Laboratory Control Sample (LCS)

| (LCS) R3628411-2 03/06 | /21 16:02 | | | | |
|------------------------|--------------|------------|----------|-------------|---------------|
| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
| Analyte | % | % | % | % | |
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |



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ONE LAB. NA Page 148 of 175

L1322293-04

Total Solids by Method 2540 G-2011

Method Blank (MB)

| (MB) R3628409-1 (| 03/06/21 15:51 | | | |
|-------------------|----------------|--------------|--------|--------|
| | MB Result | MB Qualifier | MB MDL | MB RDL |
| Analyte | % | | % | % |
| Total Solids | 0.000 | | | |



Ss

L1322305-01 Original Sample (OS) • Duplicate (DUP)

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|---------------|-------------------|
| Analyte | % | % | | % | | % |
| Total Solids | 85.1 | 84.6 | 1 | 0.544 | | 10 |

[†]Cn



Laboratory Control Sample (LCS)

| (LCS) R3628409-2 03/06 | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|------------------------|--------------|------------|----------|-------------|---------------|
| Analyte | % | % | % | % | |
| Total Solids | 50.0 | 50.0 | 100 | 85.0-115 | |





ONE LAB. NAPagev149 of 175

Wet Chemistry by Method 300.0

L1322293-01,02,03,04

Method Blank (MB)

| (MB) R3627648-1 03/04/2 | 1 15:00 | | | |
|-------------------------|-----------|--------------|--------|--------|
| | MB Result | MB Qualifier | MB MDL | MB RDL |
| Analyte | mg/kg | | mg/kg | mg/kg |
| Chloride | U | | 9.20 | 20.0 |





³Ss

L1320769-10 Original Sample (OS) • Duplicate (DUP)

| (OS) L1320769-10 03/04/2 | 1 16:27 • (DUP) | R3627648-3 | 03/04/211 | 16:37 | | |
|--------------------------|-----------------------|---------------------|-----------|---------|---------------|-------------------|
| | Original Result (dry) | DUP Result (dry) | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
| Analyte | mg/kg | mg/kg | | % | | % |
| Chloride | U | U | 1 | 0.000 | | 20 |







(OS) L1322696-02 03/04/21 18:12 • (DUP) R3627648-6 03/04/21 18:21

| (03) 11322030-02 03/04/2 | Original Result (dry) | | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------------------|--------------------------|-------|----------|---------|---------------|-------------------|
| Analyte | mg/kg | mg/kg | | % | | % |
| Chloride | 38.6 | 45.3 | 1 | 16.0 | | 20 |





Laboratory Control Sample (LCS)

| (LCS) R3627648-2 03/04/2 | 21 15:09 | | | | |
|--------------------------|--------------|------------|----------|-------------|---------------|
| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
| Analyte | mg/kg | mg/kg | % | % | |
| Chloride | 200 | 195 | 97.6 | 90.0-110 | |

L1322696-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1322696-01_03/04/2117:43 • (MS) R3627648-4_03/04/2117:53 • (MSD) R3627648-5_03/04/2118:02

| (03) 1322030-01 03 | 0/04/21 17.45 ° (IVIS) | 113027040-4 0 | 3/04/211/.55 | (14130) 13027 | JTO-J 03/0 1 /2 | 1 10.02 | | | | | | |
|--------------------|------------------------|--------------------------|-----------------|---------------------|----------------------------|----------|----------|-------------|--------------|---------------|------|------------|
| | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Chloride | 553 | 47.8 | 635 | 647 | 106 | 108 | 1 | 80.0-120 | | | 1.91 | 20 |

Reserve 6/13 0 6/14 #/30/2021 12:20:27 PM

QUALITY CONTROL SUMMARY

ONE LAB. NAPage 150 of 175

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

L1322293-01,02,03,04

Method Blank (MB)

| (MB) R3628709-2 03/08/ | /21 02:51 | | | |
|------------------------------------|-----------|--------------|--------|----------|
| | MB Result | MB Qualifier | MB MDL | MB RDL |
| Analyte | mg/kg | | mg/kg | mg/kg |
| TPH (GC/FID) Low Fraction | 0.0509 | <u>J</u> | 0.0217 | 0.100 |
| (S) a,a,a-Trifluorotoluene(FID) | 96.2 | | | 77.0-120 |



[†]Cn

Laboratory Control Sample (LCS)

| (LCS) R3628709-1 03/08/ | /21 01:19 | | | | |
|------------------------------------|--------------|------------|----------|-------------|---------------|
| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
| Analyte | mg/kg | mg/kg | % | % | |
| TPH (GC/FID) Low Fraction | 5.50 | 4.82 | 87.6 | 72.0-127 | |
| (S) a,a,a-Trifluorotoluene(FID) | | | 102 | 77.0-120 | |













ONE LAB. NA Page 151 of 175

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

L1322293-01,02,03,04

Method Blank (MB)

| Analyte MB Result mg/kg 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 | 1B) R3627417-2 03/04/2 | 21 11:00 | | | |
|--|---------------------------|-----------|--------------|----------|----------|
| 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 | | MB Result | MB Qualifier | MB MDL | MB RDL |
| Ethylbenzene U 0.000737 0.00250 Toluene U 0.00130 0.00500 Xylenes, Total U 0.000880 0.00650 | ıalyte | mg/kg | | mg/kg | mg/kg |
| Toluene U 0.00130 0.00500 Xylenes, Total U 0.000880 0.00650 | enzene | U | | 0.000467 | 0.00100 |
| Xylenes, Total U 0.000880 0.00650 | nylbenzene | U | | 0.000737 | 0.00250 |
| | luene | U | | 0.00130 | 0.00500 |
| (C) Talvana d0 07.2 | lenes, Total | U | | 0.000880 | 0.00650 |
| (5) Toluetie-08 97.2 75.0-131 | (S) Toluene-d8 | 97.2 | | | 75.0-131 |
| (S) 4-Bromofluorobenzene 102 67.0-138 | (S) 4-Bromofluorobenzene | 102 | | | 67.0-138 |
| (S) 1,2-Dichloroethane-d4 102 70.0-130 | (S) 1,2-Dichloroethane-d4 | 102 | | | 70.0-130 |

Laboratory Control Sample (LCS)

| (LCS) R3627417-1 03/04/21 10:04 | | | | | | | | |
|---------------------------------|--------------|------------|----------|-----------------|---------------|--|--|--|
| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier | | | |
| Analyte | mg/kg | mg/kg | % | % | | | | |
| Benzene | 0.125 | 0.130 | 104 | 70.0-123 | | | | |
| Ethylbenzene | 0.125 | 0.108 | 86.4 | 74.0-126 | | | | |
| Toluene | 0.125 | 0.110 | 88.0 | 75.0-121 | | | | |
| Xylenes, Total | 0.375 | 0.309 | 82.4 | 72.0-127 | | | | |
| (S) Toluene-d8 | | | 94.1 | <i>75.0-131</i> | | | | |
| (S) 4-Bromofluorobenzene | | | 99.3 | 67.0-138 | | | | |
| (S) 1 2-Dichloroethane-d4 | | | 107 | 70 0-130 | | | | |

L1321750-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

| (OS) L1321750-01 03/04/21 18:34 • (MS) R3627417-3 03/04/21 18:53 • (MSD) R3627417-4 03/04/21 19:12 | | | | | | | | | | | | |
|--|--------------------|--------------------------|-----------------|---------------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Benzene | 5.27 | 56.4 | 87.2 | 82.2 | 584 | 490 | 40 | 10.0-149 | \vee | \vee | 5.85 | 37 |
| Ethylbenzene | 5.27 | 0.887 | 3.74 | 3.86 | 54.2 | 56.4 | 40 | 10.0-160 | | | 3.05 | 38 |
| Toluene | 5.27 | 274 | 290 | 282 | 300 | 140 | 40 | 10.0-156 | EV | <u>E</u> | 2.95 | 38 |
| Xylenes, Total | 15.8 | U | 10.4 | 10.8 | 65.5 | 68.0 | 40 | 10.0-160 | | | 3.80 | 38 |
| (S) Toluene-d8 | | | | | 89.3 | 89.6 | | 75.0-131 | | | | |
| (S) 4-Bromofluorobenzene | | | | | 103 | 103 | | 67.0-138 | | | | |
| (S) 1,2-Dichloroethane-d4 | | | | | 103 | 101 | | 70.0-130 | | | | |

ONE LAB. NA Page 152 of 175

L1322293-01,02,03,04 Semi-Volatile Organic Compounds (GC) by Method 8015

Method Blank (MB)

| (MB) R3628074-1 03/06 | 5/21 18:22 | | | |
|-----------------------|-------------|--------------|--------|----------|
| | MB Result | MB Qualifier | MB MDL | MB RDL |
| Analyte | mg/kg | | mg/kg | mg/kg |
| C10-C28 Diesel Range | U | | 1.61 | 4.00 |
| C28-C40 Oil Range | U | | 0.274 | 4.00 |
| (S) o-Terphenyl | <i>75.5</i> | | | 18.0-148 |







Laboratory Control Sample (LCS)

| (LCS) R3628074-2 03/06/21 18:35 | | | | | | | | |
|---------------------------------|--------------|------------|----------|-------------|---------------|--|--|--|
| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier | | | |
| Analyte | mg/kg | mg/kg | % | % | | | | |
| C10-C28 Diesel Range | 50.0 | 40.4 | 80.8 | 50.0-150 | | | | |
| (S) o-Terphenyl | | | 79.3 | 18.0-148 | | | | |







L1320341-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

| (00) 2.0200 11 10 00, 00, | , , | Original Result | | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---------------------------|-------|-----------------|-------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| C10-C28 Diesel Range | 49.4 | 6.30 | 38.0 | 39.7 | 64.2 | 67.9 | 1 | 50.0-150 | | | 4.38 | 20 |
| (S) o-Terphenyl | | | | | 76.9 | 73.5 | | 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

| Appreviations and | Demittions |
|---------------------------------|--|
| (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. |

| Qua | lifier | С | Description |
|-----|--------|---|-------------|
| | | | |

| В | The same analyte is found in the associated blank. |
|---|---|
| Е | 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. |
| V | The sample concentration is too high to evaluate accurate spike recoveries. |























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

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

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| , | | | |
|------------------------------|-------------|-----------------------------|------------------|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| laska | 17-026 | Nevada | TN000032021-1 |
| rizona | AZ0612 | New Hampshire | 2975 |
| ırkansas | 88-0469 | New Jersey-NELAP | TN002 |
| alifornia | 2932 | New Mexico ¹ | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina 1 | DW21704 |
| Seorgia | NELAP | North Carolina ³ | 41 |
| Seorgia ¹ | 923 | North Dakota | R-140 |
| daho | TN00003 | Ohio-VAP | CL0069 |
| llinois | 200008 | Oklahoma | 9915 |
| ndiana | C-TN-01 | Oregon | TN200002 |
| owa | 364 | Pennsylvania | 68-02979 |
| ansas | E-10277 | Rhode Island | LAO00356 |
| entucky ^{1 6} | KY90010 | South Carolina | 84004002 |
| entucky ² | 16 | South Dakota | n/a |
| ouisiana | Al30792 | Tennessee 1 4 | 2006 |
| ouisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas ⁵ | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Nichigan | 9958 | Virginia | 110033 |
| /linnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| 2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| 2LA – ISO 17025 ⁵ | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| PA-Crypto | TN00003 | | |
| | | | |

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



















Page: 1 of 1 Analysis Request of Chain of Custody Record 901 West Wall Street, Suite 100 Midland, Texas 79701 Tetra Tech, Inc. Tel (432) 682-4559 H113 Fax (432) 682-3946 **ANALYSIS REQUEST** Site Manager: Christian Llull Conoco Phillips Client Name: (Circle or Specify Method No.) Email: christian.llull@tetratech.com Contact Info: James A #12 Flowline Project Name: Phone: (512) 338-1667 Project Location: 212C-MD-02366 Project #: Lea County, New Mexico (county, state) Accounts Pavable Invoice to: 901 West Wall Street. Suite 100 Midland, Texas 79701 Adrian Garcia Sampler Signature: Pace Analytical Receiving Laboratory: Cd Cr Pb COPTETRA Acctnum Comments: PRESERVATIVE MATRIX SAMPLING METHOD YEAR: 2020 SAMPLE IDENTIFICATION LAB# LAB USE SOIL TIME DATE CE ONLY Х N 03/01/21 800 BH 7 (0'-1') -01 Х X N X 03/01/21 830 (2'-3')X X Х Ν BH 8 (0-1') 03/01/21 Х N X 03/01/21 930 (2-3')REMARKS: Time: LAB USE x Standard ONLY RUSH: Same Day 24 hr. 48 hr. 72 hr. Date: Sample Temperature Rush Charges Authorized Special Report Limits or TRRP Report Sample Receipt Checklist COC Seal Present/Intact: Y XN Y_N VOA Zero Headspace: _Y_N
Y_N Pres.Correct/Check: _Y_N (Circle) HAND DELIVERED FEDEX UPS COC Signed/Accurate: All cont 2500 cpm NUPA3 3.1-3=25 Bottles arrive intact: Correct bottles used: Released to Imaging: 8/17/2021 1:42:56 PM

APPENDIX E NMSLO Seed Mixture



VRCS

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Eddy Area, New Mexico

JAMES A #012



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2 053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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Contents

| Preface | 2 |
|--|---|
| How Soil Surveys Are Made | |
| Soil Map | |
| Soil Map | |
| Legend | |
| Map Unit Legend | |
| Map Unit Descriptions | |
| Eddy Area, New Mexico | |
| PD—Pajarito-Dune land complex, 0 to 3 percent slopes | |
| References | |

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

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

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

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

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

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

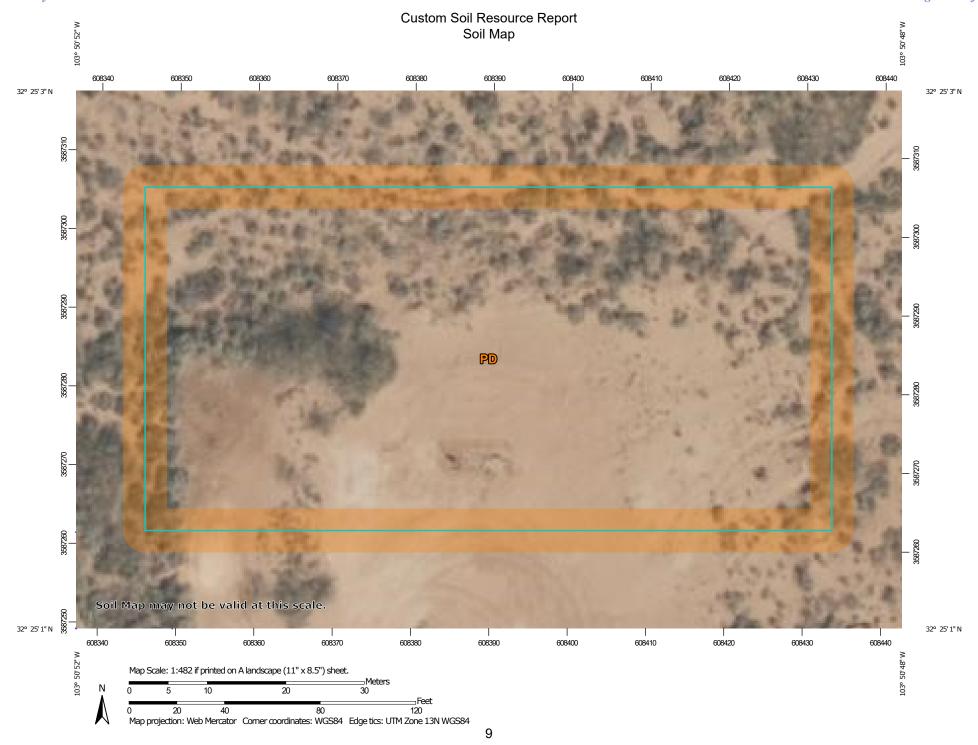
Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree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

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

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

Soil Map

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



MAP LEGEND

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Water Features

Transportation

00

Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

ဖ

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow Marsh or swamp

Mine or Quarry

Miscellaneous Water Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12. 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

10

Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI | | |
|-----------------------------|---|--------------|----------------|--|--|
| PD | Pajarito-Dune land complex, 0 to 3 percent slopes | 0.9 | 100.0% | | |
| Totals for Area of Interest | | 0.9 | 100.0% | | |

Map Unit Descriptions

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

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

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

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

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Eddy Area, New Mexico

PD—Pajarito-Dune land complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w55 Elevation: 3,000 to 5,000 feet

Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 190 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Pajarito and similar soils: 46 percent

Dune land: 45 percent Minor components: 9 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pajarito

Setting

Landform: Dunes, interdunes, plains

Landform position (three-dimensional): Side slope

Down-slope shape: Convex, linear Across-slope shape: Convex, linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 9 inches: fine sandy loam H2 - 9 to 36 inches: fine sandy loam H3 - 36 to 72 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00

in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water capacity: Moderate (about 8.4 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Description of Dune Land

Setting

Landform: Dune fields

Landform position (two-dimensional): Footslope, shoulder, backslope

Landform position (three-dimensional): Talf

Down-slope shape: Convex, linear Across-slope shape: Convex, linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 6 inches: sandy loam H2 - 6 to 60 inches: sandy loam

Interpretive groups

Land capability classification (irrigated): None specified

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Minor Components

Rock outcrop

Percent of map unit: 5 percent

Hydric soil rating: No

Largo

Percent of map unit: 4 percent

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

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NMSLO Seed Mix

Sandy Loam (SL)

SANDY LOAM (SL) SITES SEED MIXTURE:

| COMMON NAME | VARIETY | APPLICATION RATE (PLS/Acre) | DRILL BOX | |
|----------------------|--------------------|--------------------------------|--------------|--|
| Grasses: | | | | |
| Galleta grass | Viva, VNS, So. | 2.5 | \mathbf{F} | |
| Little bluestem | Cimmaron, Pastura | 2.5 | \mathbf{F} | |
| Blue grama | Hachita, Lovington | 2.0 | D | |
| Sideoats grama | Vaughn, El Reno | 2.0 | \mathbf{F} | |
| Sand dropseed | VNS, Southern | 1.0 | \mathbf{S} | |
| Forbs: | | | | |
| Indian blanketflower | VNS, Southern | 1.0 | D | |
| Parry penstemon | VNS, Southern | 1.0 | D | |
| Blue flax | Appar | 1.0 | D | |
| Desert globemallow | VNS, Southern | 1.0 | D | |
| Shrubs: | | | | |
| Fourwing saltbush | VNS, Southern | 2.0 | D | |
| Common winterfat | VNS, Southern | 1.0 | \mathbf{F} | |
| Apache plume | VNS, Southern | 0.75 | F | |
| | Total PLS/acro | e 17.75 | | |

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 penstemon is not available, substitute firecracker penstemon.
- If desert globemallow is not available, substitute scarlet globemallow or Nelson globemallow.
- If a species is not available, provide a suggested substitute to the New Mexico Land Office for approval. Increasing all other species proportionately may be acceptable.



Received by OCD: 4/30/2021 12:20:27 PM Form C-141 State of New Mexico Page 5 Oil Conservation Division

| _ | Page 174 of 1 | |
|----------------|---------------|--|
| Incident ID | | |
| District RP | | |
| Facility ID | | |
| Application ID | | |

Remediation Plan

| Remediation Plan Checklist: Each of the following items must b | a included in the plan |
|---|--|
| Remediation I fan Checkhst. Each of the following tiems must b | e included in the plan. |
| □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation poin □ Estimated volume of material to be remediated | ts |
| Closure criteria is to Table 1 specifications subject to 19.15.29. | 12(C)(4) NMAC |
| Proposed schedule for remediation (note if remediation plan tin | |
| | |
| | |
| <u>Deferral Requests Only</u> : Each of the following items must be con | nfirmed as part of any request for deferral of remediation. |
| Contamination must be in areas immediately under or around p deconstruction. | roduction equipment where remediation could cause a major facility |
| Extents of contamination must be fully delineated. | |
| Contamination does not cause an imminent risk to human healt | n, the environment, or groundwater. |
| | e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of |
| Printed Name: | Title: |
| Printed Name: Signature: | Date: |
| email: | Telephone: |
| | |
| OCD Only | |
| Received by: | Date: |
| Approved | Approval |
| Signature: Robert Hamlet | Date: |

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

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

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

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

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

CONDITIONS

Action 26475

CONDITIONS

| Operator: | OGRID: |
|---|--|
| CONOCOPHILLIPS COMPANY | 217817 |
| 600 W. Illinois Avenue Midland, TX 79701 | Action Number: 26475 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| ed Condition | Condition |
|---|---|
| | Date |
| et The Remediation Plan is Conditionally Approved. The variance request for the alternative confirmation sampling plan including twenty-two (22) confirmation floor samples and twenty-eight | 8/17/2021 |
| (28) confirmation sidewall samples is approved. All contaminated soil must be reclaimed/remediated and removed down to 4 feet below surface or until it meets strictest closure criteria. The | |
| | |
| a hydrovac to "safely" remove contaminated soil. Place liner at 4 feet below surface and backfill with clean material. | |
| | let The Remediation Plan is Conditionally Approved. The variance request for the alternative confirmation sampling plan including twenty-two (22) confirmation floor samples and twenty-eight |