

## SITE INFORMATION

Report Type: REVISED Work Plan nCH1903240708

## General Site Information:

|                             |                                                                                               |         |       |              |  |  |
|-----------------------------|-----------------------------------------------------------------------------------------------|---------|-------|--------------|--|--|
| Site:                       | VGEU 19-01 Flowline Release                                                                   |         |       |              |  |  |
| Company:                    | ConocoPhillips                                                                                |         |       |              |  |  |
| Section, Township and Range | Unit L                                                                                        | Sec. 32 | T 17S | R 35E        |  |  |
| Lease Number:               | Associated API No. 30-025-20846                                                               |         |       |              |  |  |
| County:                     | Lea                                                                                           |         |       |              |  |  |
| GPS:                        | 32.7905655                                                                                    |         |       | -103.4863052 |  |  |
| Surface Owner:              | State                                                                                         |         |       |              |  |  |
| Mineral Owner:              | N/A                                                                                           |         |       |              |  |  |
| Directions:                 | Depart from Lovington (US Hwy 82/Main St.). Head west on US Hwy 82 for 7.15 miles.            |         |       |              |  |  |
|                             | Turn left onto NM 238. Head south for 10.4 miles. Turn left onto Buckeye Rd. Head east        |         |       |              |  |  |
|                             | for 1.17 miles. Turn right onto dirt road. Head south for 0.55 mile. Arrive at location. Site |         |       |              |  |  |
|                             | is on the right.                                                                              |         |       |              |  |  |

## Release Data:

|                          |                |  |
|--------------------------|----------------|--|
| Date Released:           | 12/10/2018     |  |
| Type Release:            | Produced Water |  |
| Source of Contamination: | Flowline Leak  |  |
| Fluid Released:          | 45 bbls        |  |
| Fluids Recovered:        | 25 bbls        |  |

## Official Communication:

|               |                                                                                  |  |                                                                                    |
|---------------|----------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------|
| Name:         | Sam Widmer                                                                       |  | Christian Llull                                                                    |
| Company:      | Conoco Phillips - RMR                                                            |  | Tetra Tech                                                                         |
| Address:      | 935 N. Eldridge Pkwy.                                                            |  | 8911 North Capital of Texas Hwy                                                    |
|               |                                                                                  |  | Building 2, Suite 2310                                                             |
| City:         | Houston, Texas 77079                                                             |  | Austin, Texas                                                                      |
| Phone number: | 281-206-5298                                                                     |  | (512) 338-2861                                                                     |
| Fax:          |                                                                                  |  |                                                                                    |
| Email:        | <a href="mailto:Sam.Widmer@conocophillips.com">Sam.Widmer@conocophillips.com</a> |  | <a href="mailto:christian.llull@tetrattech.com">christian.llull@tetrattech.com</a> |

## Site Characterization

|                                                              |                    |
|--------------------------------------------------------------|--------------------|
| Shallowest Depth to Groundwater:                             | 102' 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:                                             | Low                |
| 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   | 1,000         | 2,500 mg/kg       | 20,000 mg/kg |



August 19, 2021

District Supervisor  
Oil Conservation Division, District 1  
1625 N. French Dr.  
Hobbs, NM 88240

**Re: REVISED  
Release Characterization and Remediation Work Plan  
ConocoPhillips  
VGEU 19-01 Flowline Release  
Unit Letter L, Section 32, Township 17 South, Range 35 East  
Lea County, New Mexico  
1RP-5304  
Incident ID: nCH1903240708**

Dear Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to assess a flowline release that occurred at the Vacuum Glorieta East Unit (VGEU) 19-01 well pad (API #30-025-20846), within Unit Letter L, Section 32, Township 17 South, Range 35 East, in Lea County, New Mexico (Site). The release site coordinates are 32.7905655°, -103.4863052°. The Site location is shown on Figures 1 and 2.

## **BACKGROUND**

According to the State of New Mexico C-141 Initial Report (Appendix A), a release occurred from the VGEU 19-01 flowline on December 10, 2018. Approximately 45 barrels (bbls) of produced water were released, of which approximately 25 bbls were recovered. The release extent was predominantly confined to the lease pad. The New Mexico Oil Conservation District (NMOCD) received the C-141 report form for the release on December 13, 2018 and subsequently assigned the Site the Remediation Permit (RP) number 1RP-5304 and Incident Identification (ID) nCH1903240708.

## **SITE CHARACTERIZATION**

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 and the site is in a low karst potential area. According to the New Mexico Office of the State Engineers (NMOSE) database, there are three (3) water wells within ½ mile (800-meter) radius of the Site with an average depth to groundwater at 102 feet below ground surface (bgs). The site characterization data is included in Appendix B.

## **REGULATORY FRAMEWORK**

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action

**TETRA TECH**

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Tel 432.682.4559 Fax 432.682.3946 [www.tetrattech.com](http://www.tetrattech.com)

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

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

| Constituent | Site RRALs   |
|-------------|--------------|
| Chloride    | 20,000 mg/kg |
| TPH         | 2,500 mg/kg  |
| BTEX        | 50 mg/kg     |

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

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

## INITIAL RESPONSE

In accordance with 19.15.29.8. B. (4) NMAC that states “the responsible party may commence remediation immediately after discovery of a release”, ConocoPhillips elected to begin remediation of the impacted area in February 2019. The release was predominantly confined to the caliche well pad, as shown on Figure 3. The visually impacted soils within the release area footprint were scraped to a depth of 6 inches. The initial release extent and initial response excavation extent are shown on Figure 3.

## INITIAL SITE ASSESSMENT AND SAMPLING RESULTS

Post-initial response, COP personnel conducted an initial soil assessment of the release area in February 2019. Six (6) borings (SP-1 through SP-6) were installed to a total depth of 3 feet bgs to evaluate the vertical extents of the release. A total of 12 soil samples were collected from these 6 boring locations on February 28, 2019 (Figure 3). The samples were submitted to an analytical laboratory for TPH, BTEX and chloride analysis. A copy of the analytical laboratory report and chain-of-custody documentation are included in Appendix C.

The results of the assessment sampling event in February 2019 are summarized in Table 1. The sample locations are shown on Figure 3. The analytical results associated with boring location SP-6 (located on-pad) were above the RRAL for chloride at the 0-1' depth interval. Sample results from SP-4 were above the Site reclamation requirements for chloride and/or TPH down to the 3-foot depth interval. There were no Site RRAL exceedances for BTEX in the initial assessment analytical results.

## ADDITIONAL SITE ASSESSMENT AND SAMPLING RESULTS

In order to more fully characterize and delineate the release area, Tetra Tech personnel conducted a subsurface investigation in September 2019. Nine (9) borings (BH-1 – BH-9) were installed using an air rotary drilling rig to various depths to evaluate the vertical and horizontal extents of the release. Selected samples were submitted to an analytical laboratory for TPH, BTEX, and chlorides. Copies of the analytical laboratory reports and chain-of custody documentation are included in Appendix C. Boring logs, included as Appendix D, present soil descriptions, sample depths and field screening data from the additional site assessment. Photographic documentation of site conditions at the time of assessment activities is included as Appendix E.

The results of the additional assessment in September 2019 are summarized in Table 2. The sample locations are shown in Figure 3. All analytical results were below the proposed RRALs for both TPH and BTEX. The analytical results associated with boring locations BH-2 and BH-4 were above the RRAL for chloride in the 0-1' interval and the 0-3' intervals, respectively. Chloride concentrations at boring locations BH-5, BH-6 and BH-7 are elevated in the 0-3' intervals and generally increase with depth. Further explanation on these results below. Analytical results associated with boring locations BH-1, BH-3 and BH-9 were below the RRALs for all constituents analyzed.

Borings BH-4, BH-5, BH-6 and BH-7 were drilled in locations outside the 1RP-5304 release footprint to attempt to provide horizontal delineation. Based on the release extent, field screening data, and the subsequent analytical results, it appears the elevated chloride concentrations in the surface and subsurface at BH-4, BH-5, BH-6 and BH-7 are due to a historical release, and unrelated to the current release (1RP-5304). cursory review of available satellite imagery indicates the general area has historically been used for production, however, imagery is not available prior to 1996.

## INITIAL REMEDIATION WORK PLAN

A Release Characterization Work Plan was prepared by Tetra Tech on behalf of COP and submitted to the NMOCd on January 13, 2020. The report described the assessment activities and results. The work plan was denied by Robert Hamlet of the NMOCd via email on Monday, June 29, 2020. The variance for composite samples of 500 square feet was approved. The reason for denial of the work plan was insufficient horizontal delineation of the release area footprint.

Reasons for denial included in the email include:

- “• SP-4 and BH-4 appear to be in the pasture area. Please make sure these areas are delineated/remediated to 600 mg/kg for chlorides and 100 mg/kg for TPH.
- Additional horizontal delineation samples for chlorides <600 mg/kg will need to be established on the boundaries at BH-4, BH-6, BH-7. As the clarification states, “one foot sample suffices for immediate horizontal evaluation”. Please make sure these boundary sample locations are delineated to <600 mg/kg for chlorides at the surface..”

## ADDITIONAL SITE DELINEATION AND SAMPLING RESULTS

In order to meet the requirements of 19.15.29.11 NMAC and duly address the NMOCd reasoning for denial, Tetra Tech personnel conducted soil sampling on April 8, 2021 on behalf of ConocoPhillips. A total of seven (7) additional borings (BH-10 through BH-16) were installed using an air rotary drill rig. These borings were drilled to achieve horizontal and vertical delineation of the impacted pasture area north of the VGEU 19-01 well pad. Borings BH-13 and BH-14 were installed to capture the vertical extent of impact to the north. Borings BH-10 through BH-12, BH-15 and BH-16 were installed along the perimeter of impact to achieve horizontal delineation. The samples were submitted to an analytical laboratory for TPH, BTEX and chloride analysis. Copies of analytical reports and chain-of-custody documentation are included in Appendix C.

The results of the additional site delineation in April 2021 are summarized in Table 2. The sample locations are shown in Figure 3. Analytical results associated with BH-13 and BH-14 were above reclamation requirements for chloride (600 mg/kg) down to 3 feet bgs. The remainder of the analytical results from the April 2021 borings were below the reclamation requirements for all constituents analyzed.

## REMEDATION WORK PLAN

Based on the analytical results, ConocoPhillips proposes to further excavate on-pad soils an additional 1 foot near sample location SP-6, as depicted in Figure 4. Screening samples will be collected during the excavation process and compared to the proposed RRALs to determine if the remediation footprint for the site will be modified based on field conditions.



Additionally, the impacted material in the vicinity of SP-4 and BH-4 will be excavated to a depth of 4 feet bgs, and the impacted material in the vicinity of BH-13 and BH-14 will excavated to a depth of 4 feet bgs. Screening samples will be collected in these excavated areas and compared to reclamation requirements to ensure the efficacy of impacted soil removal.

Impacted soils will be excavated using heavy equipment (backhoes, hoe rams, and track hoes) to a maximum depth of 4 feet below surface or until a representative sample from the walls and bottom of the excavation is below the applicable RRALs. The off-pad area of the release extent that runs along the steel flowlines will be hand-dug to a depth of 4 feet or the maximum extent practicable.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation floor and sidewall samples will be collected for verification of remedial activities, and analyzed for TPH, BTEX, and chloride. Once the sample results are received, the excavation will then be backfilled with clean material to surface grade. The estimated volume of material to be remediated is 1,040 cubic yards.

### ALTERNATIVE CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, ConocoPhillips proposes the following alternative confirmation sampling plan to adhere with NMOCD requirements. The proposed confirmation sample locations are depicted in Figure 5. Sixteen (16) confirmation floor samples and twenty-nine (29) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses an area of approximately 7,200 square feet.

These confirmation sidewall and floor samples will be representative of no more than approximately 500 square feet of excavated area. Confirmation samples will be sent to Pace Laboratories for analysis of TPH (Method 8015 modified), BTEX (Method 8260B), and chlorides (USEPA Method 300.0).

### SITE RECLAMATION AND RESTORATION PLAN

Based on the site characterization, the impacted surface area of the release on the production lease pad meets the remediation standards of Table I of 19.15.29.12 NMAC. Final remediation and reclamation of any impact within the lease pad area shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the Site is no longer being used for oil and gas operations. Therefore, reclamation of the soils located within the confines of the VGEU 19-01 well pad will be delayed until the abandonment of the VGEU 19-01 well and the full pad reclamation.

The backfilled areas located outside the VGEU 19-01 well pad boundary will be seeded in Spring 2022 (first favorable growing season) to aid in revegetation. Based on the soils at the site, the New Mexico State Land Office (NMSLO) Coarse (CS) Sites Seed Mixture will be used for seeding and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. The NMSLO seed mixture details and corresponding pounds pure live seed per acre are included in Appendix F.

### CONCLUSION

ConocoPhillips proposes to begin remediation activities at the Site within 120 days of the date of NMOCD approval of this submittal. 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. As noted,

REVISED Release Characterization and Remediation Work Plan  
August 19, 2021

ConocoPhillips

on-pad reclamation and restoration will occur once the well is plugged and operations have ceased at this active well pad.

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



Greg W. Pope, P.G.  
Program Manager

cc:  
Mr. Marvin Soriwei, RMR – ConocoPhillips  
Mr. Sam Widmer, RMR - ConocoPhillips  
Mr. Charles Beauvais, GPBU - ConocoPhillips

**List of Attachments**

Figures:

- Figure 1 – Site Overview Map
- Figure 2 – Site Topographic Map
- Figure 3 – Release Assessment Map
- Figure 4 – Proposed Remediation Extents
- Figure 5 – Alternative Confirmation Sample Plan

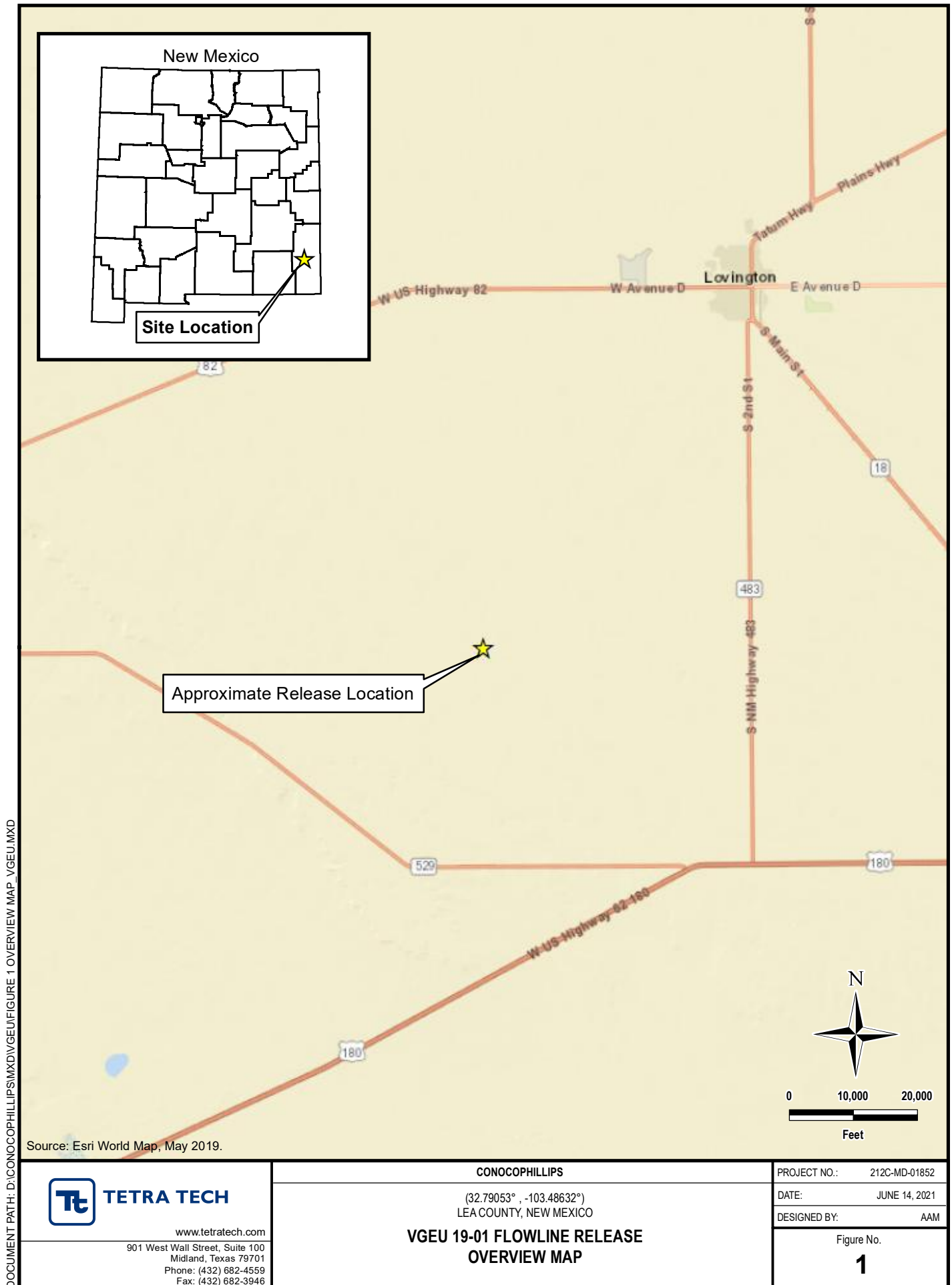
Tables:

- Table 1 – Summary of Analytical Results – Initial Soil Assessment
- Table 2 – Summary of Analytical Results – Additional Soil Assessment

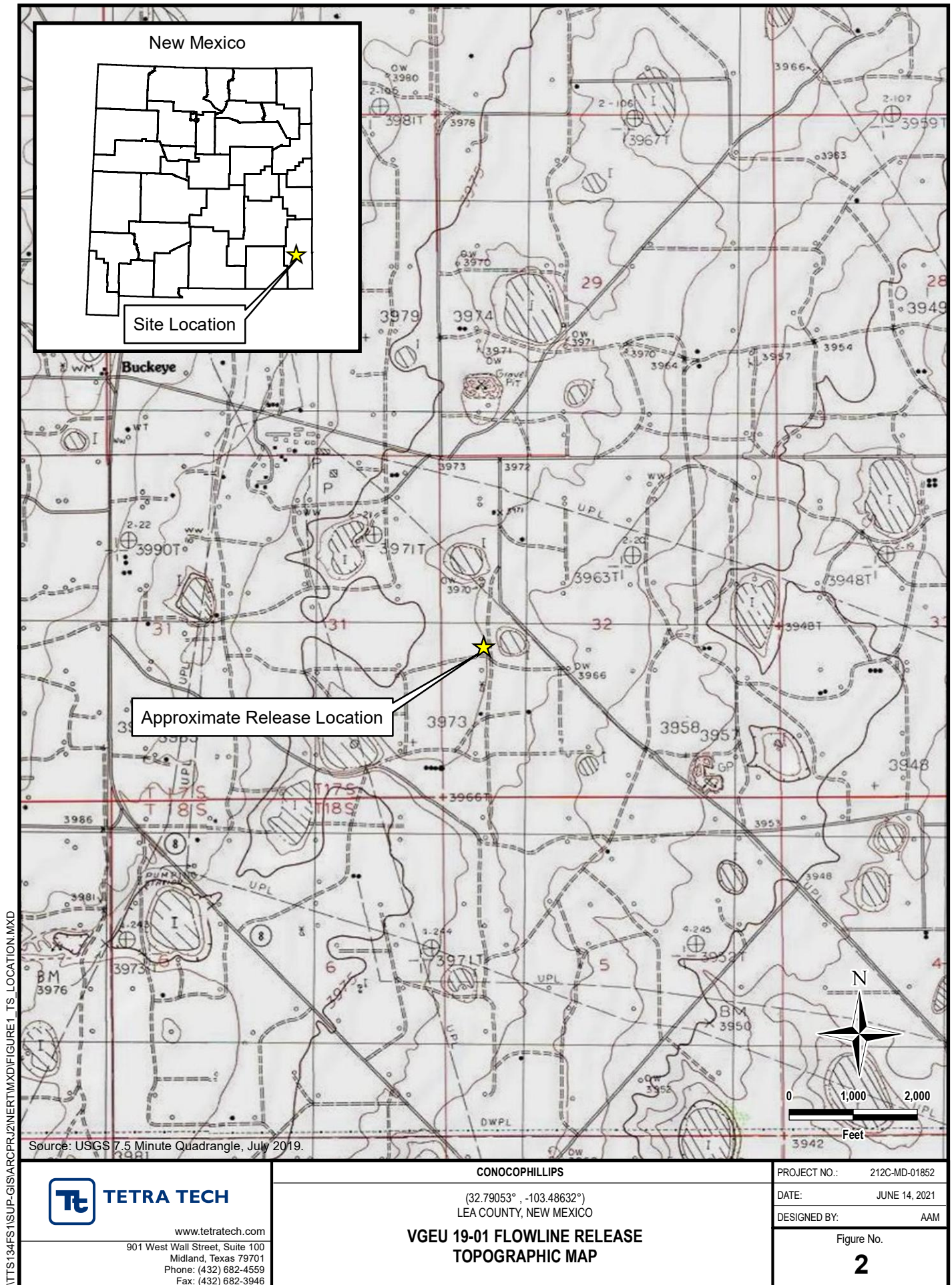
Appendices:

- Appendix A – C-141 Forms
- Appendix B – Site Characterization Data
- Appendix C – Laboratory Analytical Reports
- Appendix D – Soil Boring Logs
- Appendix E – Photographic Documentation
- Appendix F – NMSLO Seed Mixture Details

## FIGURES

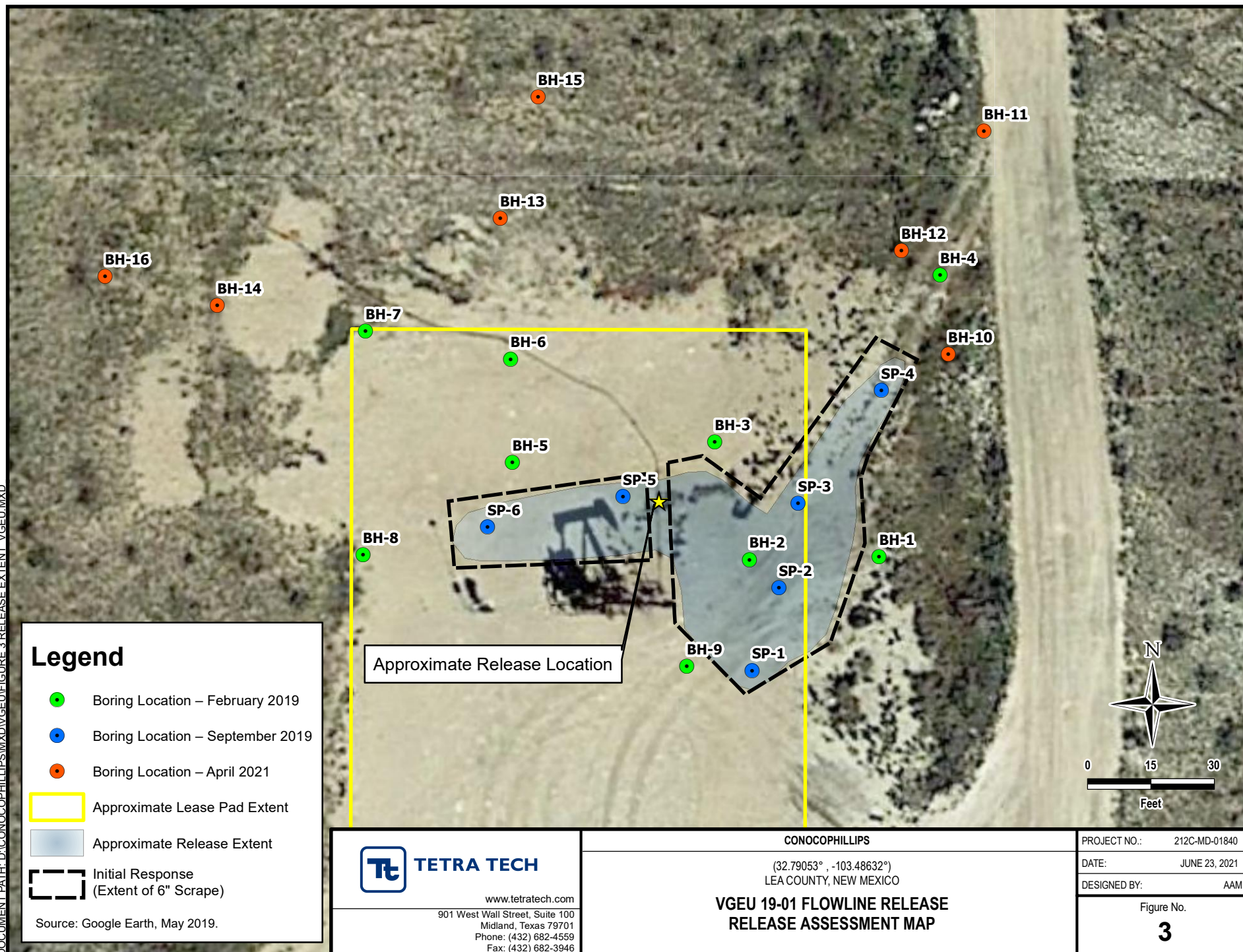




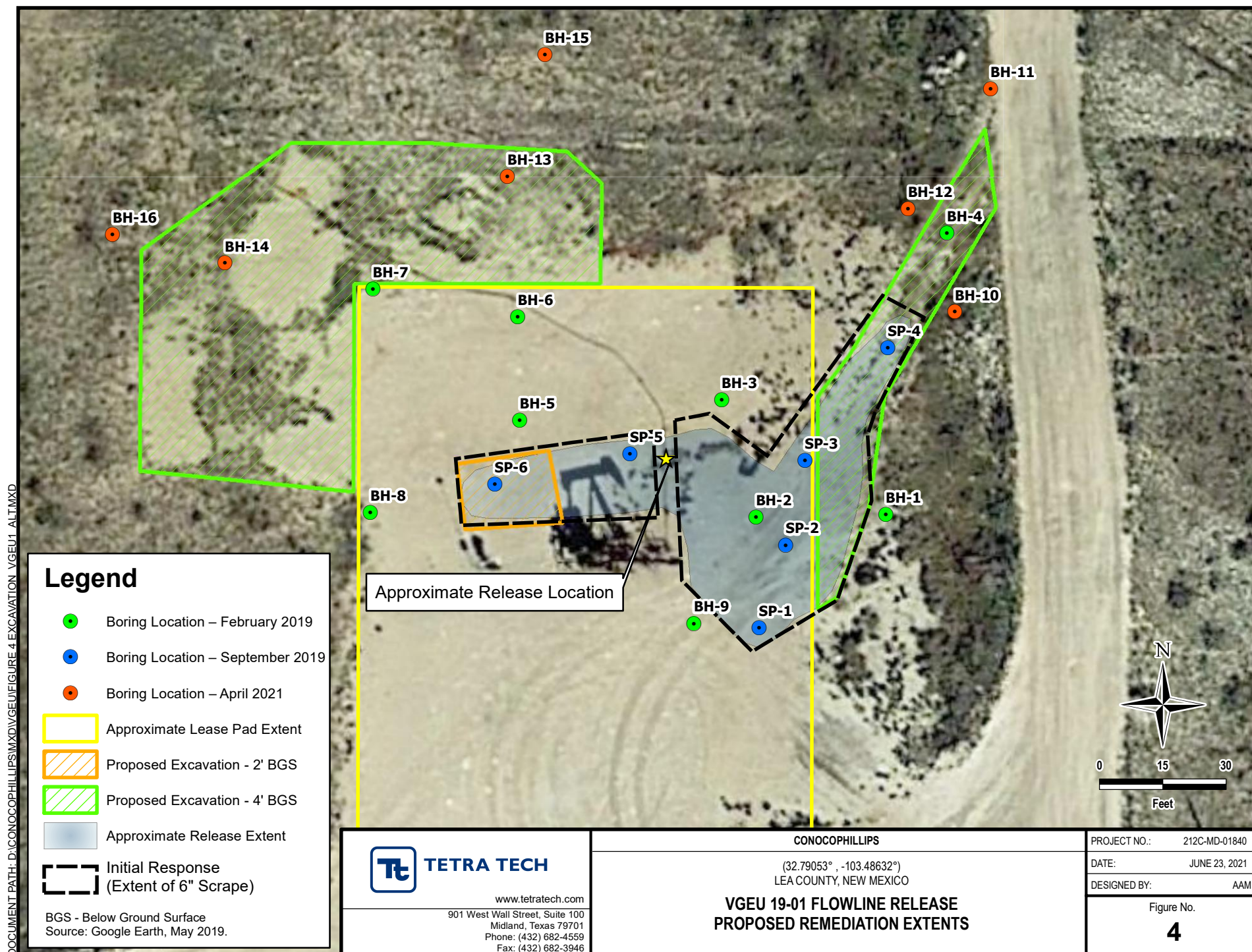




DOCUMENT PATH: D:\CONOCOPHILLIPS\MD\VEU\FIGURE 3 RELEASE EXTENT VGEU.MXD

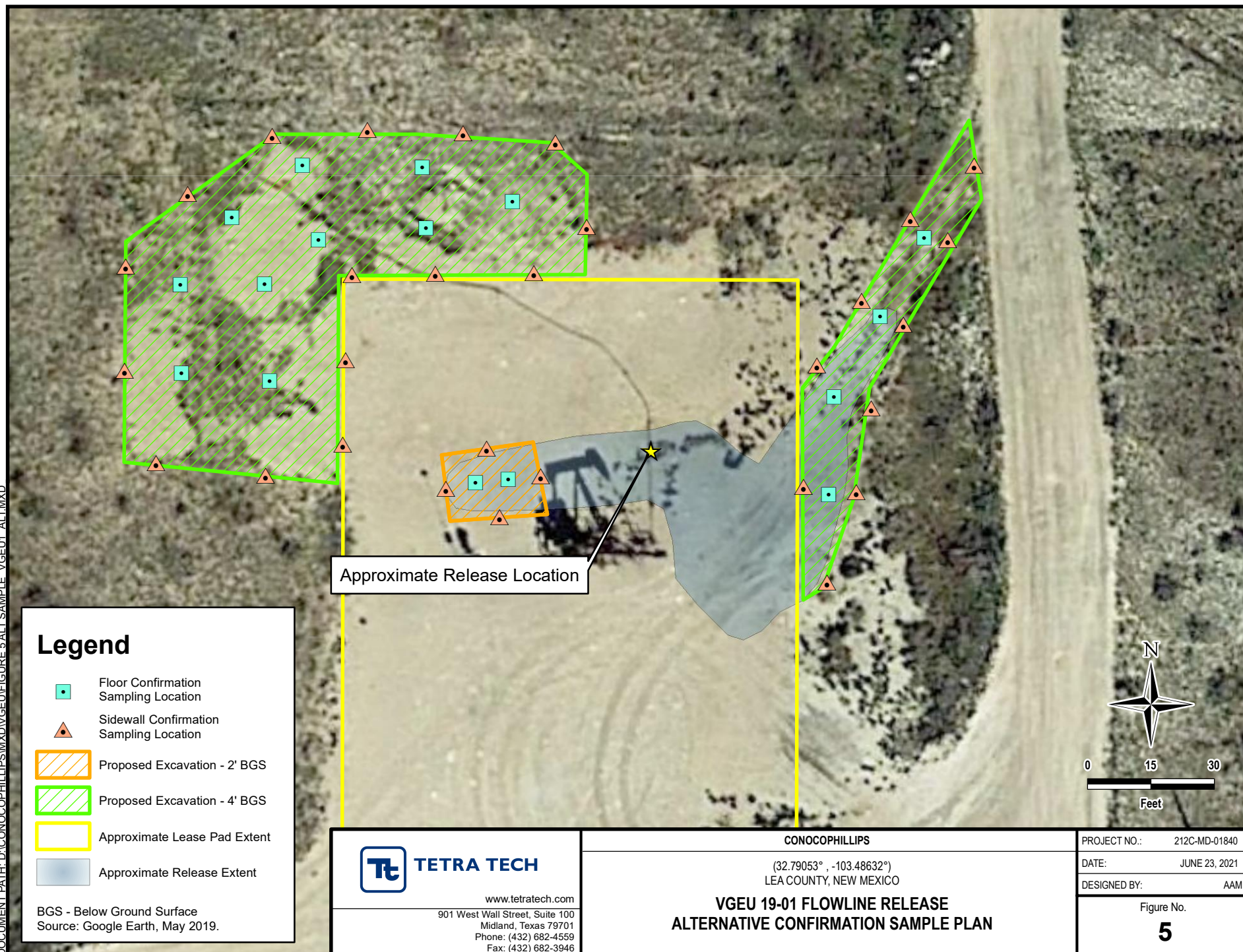








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## **TABLES**

TABLE 1  
SUMMARY OF ANALYTICAL RESULTS  
INITIAL SOIL ASSESSMENT  
VGEU 19-01 FLOWLINE RELEASE  
LEA COUNTY, NEW MEXICO  
1RP-5304

| Sample ID | Sample Date | Sample Interval | Chloride <sup>1</sup> | BTEX <sup>2</sup> |   |         |   |              |   |        |   |            |   | TPH <sup>3</sup>                 |                                    |                                    |         |       |                                               |
|-----------|-------------|-----------------|-----------------------|-------------------|---|---------|---|--------------|---|--------|---|------------|---|----------------------------------|------------------------------------|------------------------------------|---------|-------|-----------------------------------------------|
|           |             |                 |                       | Benzene           |   | Toluene |   | Ethylbenzene |   | Xylene |   | Total BTEX |   | GRO                              | DRO                                |                                    | EXT DRO |       | Total TPH (C <sub>6</sub> - C <sub>36</sub> ) |
|           |             |                 |                       | mg/kg             | Q | mg/kg   | Q | mg/kg        | Q | mg/kg  | Q | mg/kg      | Q | C <sub>6</sub> - C <sub>10</sub> | >C <sub>10</sub> - C <sub>28</sub> | >C <sub>28</sub> - C <sub>36</sub> |         |       |                                               |
|           |             | ft. bgs         | mg/kg                 | mg/kg             |   | mg/kg   |   | mg/kg        |   | mg/kg  |   | mg/kg      |   | mg/kg                            |                                    | mg/kg                              |         | mg/kg | mg/kg                                         |
| SP-1      | 02/28/19    | 0-1             | 3440                  | <0.050            |   | <0.050  |   | <0.050       |   | <0.150 |   | <0.300     |   | <0.10                            | <0.10                              | <0.10                              |         |       | <0.10                                         |
|           |             | 2-3             | 48                    | <0.050            |   | <0.050  |   | <0.050       |   | <0.150 |   | <0.300     |   | <0.10                            | <0.10                              | <0.10                              |         |       | <0.10                                         |
| SP-2      | 02/28/19    | 0-1             | 48                    | <0.050            |   | <0.050  |   | <0.050       |   | <0.150 |   | <0.300     |   | <0.10                            | <0.10                              | <0.10                              |         |       | <0.10                                         |
|           |             | 2-3             | 64                    | <0.050            |   | <0.050  |   | <0.050       |   | <0.150 |   | <0.300     |   | <0.10                            | <0.10                              | <0.10                              |         |       | <0.10                                         |
| SP-3      | 02/28/19    | 0-1             | 16                    | <0.050            |   | <0.050  |   | <0.050       |   | <0.150 |   | <0.300     |   | <0.10                            | <0.10                              | <0.10                              |         |       | <0.10                                         |
|           |             | 2-3             | 160                   | <0.050            |   | <0.050  |   | <0.050       |   | <0.150 |   | <0.300     |   | <0.10                            | <0.10                              | <0.10                              |         |       | <0.10                                         |
| SP-4      | 02/28/19    | 0-1             | <b>8000</b>           | <0.050            |   | <0.050  |   | <0.050       |   | <0.150 |   | <0.300     |   | <0.10                            | <b>1610</b>                        | 217                                |         |       | <b>1827</b>                                   |
|           |             | 2-3             | <b>2240</b>           | <0.050            |   | <0.050  |   | <0.050       |   | <0.150 |   | <0.300     |   | <0.10                            | 23.1                               | <0.10                              |         |       | 23.1                                          |
| SP-5      | 02/28/19    | 0-1             | 11500                 | <0.050            |   | <0.050  |   | <0.050       |   | <0.150 |   | <0.300     |   | <0.10                            | <0.10                              | <0.10                              |         |       | <0.10                                         |
|           |             | 2-3             | 6660                  | <0.050            |   | <0.050  |   | <0.050       |   | <0.150 |   | <0.300     |   | <0.10                            | <0.10                              | <0.10                              |         |       | <0.10                                         |
| SP-6      | 02/28/19    | 0-1             | <b>30000</b>          | <0.050            |   | <0.050  |   | <0.050       |   | <0.150 |   | <0.300     |   | <0.10                            | <0.10                              | <0.10                              |         |       | <0.10                                         |
|           |             | 2-3             | 8130                  | <0.050            |   | <0.050  |   | <0.050       |   | <0.150 |   | <0.300     |   | <0.10                            | <0.10                              | <0.10                              |         |       | <0.10                                         |

## NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

ppm Parts per million

TPH Total Petroleum Hydrocarbons

\* Field screening measurement

1 Method 300.0

2 Method 8260B

3 Method 8015M

DRO Diesel Range Organics

GRO Gasoline Range Organics

ORO Oil Range Organics

**Bold and italicized values exceed the applicable Site RRAL and/or Reclamation Requirement.**

Shaded rows indicate depth intervals proposed for excavation and remediation.

B The same analyte is found in the associated blank.

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

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

J5 The sample matrix interfered with the ability to make accurate determination; spike value is high.

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

V The sample concentration is too high to evaluate accurate spike recoveries.

U Not detected at the Sample Detection Limit (SDL).



TABLE 2  
SUMMARY ANALYTICAL RESULTS  
ADDITIONAL SOIL ASSESSMENT  
CONOCOPHILLIPS  
VGEU 19-01 FLOWLINE RELEASE  
LEA COUNTY, NM  
1RP-5304

| Sample ID | Sample Date | Sample Depth Interval | Field Screening Results |     | Chloride <sup>1</sup> |     | BTEX <sup>2</sup> |      |           |      |              |      |               |         |            |                  | TPH <sup>3</sup> |                                  |                                   |                                   |       |      |  | Total TPH<br>(GRO+DRO+ORO) |
|-----------|-------------|-----------------------|-------------------------|-----|-----------------------|-----|-------------------|------|-----------|------|--------------|------|---------------|---------|------------|------------------|------------------|----------------------------------|-----------------------------------|-----------------------------------|-------|------|--|----------------------------|
|           |             |                       | Chloride                | PID |                       |     | Benzene           |      | Toluene   |      | Ethylbenzene |      | Total Xylenes |         | Total BTEX | GRO <sup>4</sup> |                  | DRO                              |                                   | ORO                               |       |      |  |                            |
|           |             |                       |                         |     | 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     |      |  |                            |
|           |             |                       |                         |     | ft. bgs               | ppm | mg/kg             | Q    | mg/kg     | Q    | mg/kg        | Q    | mg/kg         | Q       | mg/kg      | Q                | mg/kg            | C <sub>3</sub> - C <sub>10</sub> | C <sub>10</sub> - C <sub>28</sub> | C <sub>28</sub> - C <sub>40</sub> |       |      |  |                            |
| BH-2      | 09/16/19    | 0-1                   | 948                     | 3.8 | 992                   |     | < 0.00109         |      | < 0.00545 |      | < 0.00272    |      | < 0.00708     | -       | < 0.109    |                  | 14.1             |                                  | 19.2                              |                                   |       | 33.3 |  |                            |
|           |             | 2-3                   | 213                     | 3.2 | 326                   |     | < 0.00115         |      | < 0.00574 |      | < 0.00287    |      | < 0.00747     | -       | < 0.116    |                  | 3.31             | J                                | 9.44                              |                                   | 12.8  |      |  |                            |
|           |             | 4-5                   | 382                     | 6.7 | 74.8                  |     | < 0.00111         |      | < 0.00556 |      | < 0.00278    |      | < 0.00723     | -       | < 0.111    |                  | 5.56             |                                  | 8.99                              |                                   | 14.6  |      |  |                            |
| BH-3      | 09/16/19    | 0-1                   | -                       | 4.8 | 65.8                  |     | < 0.00107         |      | < 0.00533 |      | < 0.00267    |      | < 0.00693     | -       | < 0.107    |                  | 4.19             | J                                | 11.5                              |                                   | 15.7  |      |  |                            |
|           |             | 2-3                   | 143                     | 3.7 | 31.8                  | B   | < 0.00106         |      | < 0.00532 |      | < 0.00266    |      | < 0.00692     | -       | < 0.106    |                  | 2.26             | J                                | 6.86                              |                                   | 9.12  |      |  |                            |
|           |             | 4-5                   | -                       | 3.6 | 251                   |     | < 0.00115         |      | < 0.00576 |      | < 0.00288    |      | < 0.00749     | -       | 0.0275     | B J              | < 4.61           |                                  | 1.29                              | J                                 | 1.32  |      |  |                            |
| BH-5      | 09/16/19    | 0-1                   | -                       | 3.8 | 3250                  |     | < 0.00108         |      | < 0.00540 |      | < 0.00270    |      | < 0.00702     | -       | < 0.108    |                  | 12.3             |                                  | 36.4                              |                                   | 48.7  |      |  |                            |
|           |             | 2-3                   | 2420                    | 3.4 | 1350                  |     | < 0.00112         |      | < 0.00562 |      | < 0.00281    |      | < 0.00730     | -       | < 0.112    |                  | 14.8             |                                  | 58.6                              |                                   | 73.4  |      |  |                            |
|           |             | 4-5                   | 1290                    | 3.1 | 1060                  |     | < 0.00104         |      | < 0.00522 |      | < 0.00261    |      | < 0.00679     | -       | < 0.104    |                  | < 4.18           |                                  | < 4.18                            |                                   | -     |      |  |                            |
|           |             | 6-7                   | 1970                    | 1.2 | NS                    |     | NS                |      | NS        |      | NS           |      | NS            | -       | NS         |                  | NS               |                                  | NS                                |                                   | -     |      |  |                            |
|           |             | 9-10                  | 2990                    | 1.1 | NS                    |     | NS                |      | NS        |      | NS           |      | NS            | -       | NS         |                  | NS               |                                  | NS                                |                                   | -     |      |  |                            |
|           |             | 14-15                 | 2620                    | 1.6 | 3020                  |     | < 0.00108         | T8   | 0.00531   | J T8 | 0.00135      | J T8 | < 0.00704     | T8      | 0.00666    | < 0.108          | T8               | < 4.33                           | T8                                | < 4.33                            | T8    | -    |  |                            |
|           |             | 19-20                 | 1200                    | 1.2 | NS                    |     | NS                |      | NS        |      | NS           |      | NS            | -       | NS         |                  | NS               |                                  | NS                                |                                   | -     |      |  |                            |
|           |             | 24-25                 | 554                     | 1.1 | 260                   |     | < 0.00104         | T8   | 0.00537   | T8   | < 0.00259    | T8   | < 0.00673     | T8      | 0.00537    | < 0.104          | T8               | < 4.14                           | T8                                | < 4.14                            | T8    | -    |  |                            |
| 29-30     | 176         | 1.2                   | 138                     |     | < 0.00104             | T8  | 0.00478           | J T8 | < 0.00261 | T8   | < 0.00679    | T8   | 0.00478       | < 0.104 | T8         | < 4.18           | T8               | < 4.18                           | T8                                | -                                 |       |      |  |                            |
| BH-6      | 09/16/19    | 0-1                   | -                       | 2.7 | 4510                  |     | < 0.00105         |      | < 0.00524 |      | < 0.00262    |      | < 0.00681     | -       | < 0.105    |                  | 9.08             |                                  | 30.8                              |                                   | 39.9  |      |  |                            |
|           |             | 2-3                   | 4210                    | 5.7 | 3370                  |     | < 0.00105         |      | < 0.00524 |      | < 0.00262    |      | < 0.00681     | -       | < 0.105    |                  | 10.9             |                                  | 37.1                              |                                   | 48.0  |      |  |                            |
|           |             | 4-5                   | -                       | 4.3 | 2210                  |     | < 0.00105         |      | < 0.00526 |      | < 0.00263    |      | < 0.00684     | -       | < 0.105    |                  | < 4.21           |                                  | < 4.21                            |                                   | -     |      |  |                            |
|           |             | 6-7                   | -                       | 3.1 | 6500                  |     | < 0.00106         | T8   | 0.00498   | J T8 | < 0.00265    | T8   | < 0.00689     | T8      | 0.00498    | < 0.106          | T8               | < 4.24                           | T8                                | < 4.24                            | T8    | -    |  |                            |
|           |             | 9-10                  | 5420                    | 3.4 | NS                    |     | NS                |      | NS        |      | NS           |      | NS            | -       | NS         |                  | NS               |                                  | NS                                |                                   | -     |      |  |                            |
| BH-7      | 09/16/19    | 0-1                   | -                       | 3.9 | 2400                  |     | < 0.00107         |      | < 0.00536 |      | < 0.00268    |      | < 0.00697     | -       | < 0.107    |                  | 9.70             |                                  | 44.4                              |                                   | 54.1  |      |  |                            |
|           |             | 2-3                   | 3010                    | 4.4 | 1470                  |     | < 0.00108         |      | < 0.00538 |      | < 0.00269    |      | < 0.00699     | -       | < 0.108    |                  | 14.4             |                                  | 62.3                              |                                   | 76.7  |      |  |                            |
|           |             | 4-5                   | -                       | 3.5 | 3340                  |     | < 0.00111         |      | < 0.00556 |      | < 0.00278    |      | < 0.00723     | -       | < 0.111    |                  | 7.39             |                                  | 23.5                              |                                   | 30.9  |      |  |                            |
|           |             | 6-7                   | -                       | 3.1 | 3760                  |     | < 0.00110         | T8   | 0.00545   | J T8 | < 0.00275    | T8   | < 0.00716     | T8      | 0.00545    | < 0.110          | T8               | < 4.40                           | T8                                | < 4.40                            | T8    | -    |  |                            |
|           |             | 9-10                  | 2990                    | 5.8 | NS                    |     | NS                |      | NS        |      | NS           |      | NS            | -       | NS         |                  | NS               |                                  | NS                                |                                   | -     |      |  |                            |
| BH-8      | 09/16/19    | 0-1                   | -                       | 4.8 | 44.0                  |     | < 0.00103         |      | < 0.00515 |      | < 0.00258    |      | < 0.00670     | -       | < 0.103    |                  | < 4.12           |                                  | 7.08                              |                                   | 7.08  |      |  |                            |
|           |             | 2-3                   | 331                     | 6.5 | 158                   |     | < 0.00105         |      | < 0.00527 |      | < 0.00263    |      | < 0.00684     | -       | < 0.105    |                  | 2.92             | J                                | 8.76                              |                                   | 11.7  |      |  |                            |
|           |             | 4-5                   | 102                     | 6.3 | 14.6                  | B   | < 0.00110         |      | < 0.00550 |      | < 0.00275    |      | < 0.00715     | -       | < 0.110    |                  | < 4.40           |                                  | < 4.40                            |                                   | -     |      |  |                            |
|           |             | 6-7                   | -                       | 5.5 | NS                    |     | NS                |      | NS        |      | NS           |      | NS            | -       | NS         |                  | NS               |                                  | NS                                |                                   | -     |      |  |                            |
| BH-9      | 09/16/19    | 0-1                   | 310                     | 2.9 | 104                   |     | < 0.00102         |      | < 0.00510 |      | < 0.00255    |      | < 0.00663     | -       | < 0.103    |                  | 2.90             | J                                | 13.2                              |                                   | 16.1  |      |  |                            |
|           |             | 2-3                   | 589                     | 2.8 | 184                   |     | < 0.00101         |      | < 0.00504 |      | < 0.00252    |      | < 0.00656     | -       | < 0.101    |                  | 5.12             |                                  | 29.4                              |                                   | 34.5  |      |  |                            |
|           |             | 4-5                   | 572                     | 2.4 | 750                   |     | < 0.00106         |      | < 0.00531 |      | < 0.00266    |      | < 0.00690     | -       | < 0.107    |                  | < 4.25           |                                  | 0.649                             | J                                 | 0.649 |      |  |                            |
|           |             | 6-7                   | 271                     | 2.1 | 251                   |     | < 0.00102         | T8   | 0.00532   | T8   | < 0.00256    | T8   | < 0.00665     | T8      | 0.00532    | < 0.102          | T8               | < 4.09                           | T8                                | < 4.09                            | T8    | -    |  |                            |

TABLE 2  
SUMMARY ANALYTICAL RESULTS  
ADDITIONAL SOIL ASSESSMENT  
CONOCOPHILLIPS  
VGEU 19-01 FLOWLINE RELEASE  
LEA COUNTY, NM  
1RP-5304

| Sample ID | Sample Date | Sample Depth Interval | Field Screening Results |     | Chloride <sup>1</sup> |     | BTEX <sup>2</sup> |    |           |   |              |    |               |         |            | TPH <sup>3</sup> |       |        |   |       |       |   | Total TPH (GRO+DRO +ORO) |       |
|-----------|-------------|-----------------------|-------------------------|-----|-----------------------|-----|-------------------|----|-----------|---|--------------|----|---------------|---------|------------|------------------|-------|--------|---|-------|-------|---|--------------------------|-------|
|           |             |                       | Chloride                | PID |                       |     | Benzene           |    | Toluene   |   | Ethylbenzene |    | Total Xylenes |         | Total BTEX | GRO <sup>4</sup> |       | DRO    |   | ORO   |       |   |                          |       |
|           |             |                       |                         |     | ft. bgs               | ppm | mg/kg             | Q  | mg/kg     | Q | mg/kg        | Q  | mg/kg         | Q       | mg/kg      | Q                | mg/kg | mg/kg  | Q | Q     | mg/kg | Q |                          | mg/kg |
| BH-1      | 09/16/19    | 0-1                   | 267                     | 4.3 | 110                   |     | < 0.00105         |    | < 0.00524 |   | < 0.00262    |    | < 0.00682     |         | -          | < 0.105          |       | 4.75   |   | 11.3  |       |   |                          | 16.1  |
|           |             | 2-3                   | 241                     | 4.1 | 114                   |     | < 0.00107         |    | < 0.00536 |   | < 0.00268    |    | < 0.00697     |         | -          | < 0.107          |       | 5.84   |   | 14.6  |       |   | 20.4                     |       |
|           |             | 4-5                   | -                       | 2.9 | 359                   |     | < 0.00107         |    | < 0.00534 |   | < 0.00267    |    | < 0.00694     |         | -          | < 0.107          |       | 3.85   | J | 7.35  |       |   | 11.2                     |       |
|           |             | 6-7                   | -                       | 2.1 | NS                    |     | NS                |    | NS        |   | NS           |    | NS            |         | -          | NS               |       | NS     |   | NS    |       |   | -                        |       |
| BH-4      | 09/16/19    | 0-1                   | -                       | 2.1 | 2880                  |     | < 0.00106         |    | < 0.00531 |   | < 0.00265    |    | < 0.00690     |         | -          | < 0.106          | J3    | 6.51   |   | 16.8  |       |   | 23.3                     |       |
|           |             | 2-3                   | 1600                    | 4.8 | 1650                  |     | < 0.00109         |    | < 0.00543 |   | < 0.00272    |    | < 0.00706     |         | -          | < 0.109          |       | 4.97   |   | 11.5  |       |   | 16.5                     |       |
|           |             | 4-5                   | 113                     | 4.9 | 70.4                  |     | < 0.00106         |    | < 0.00531 |   | < 0.00266    |    | < 0.00691     |         | -          | 0.0233           | B J   | < 4.25 |   | 2.20  | J     |   | 2.22                     |       |
| BH-10     | 4/8/2021    | 0-1                   | 30.2                    | -   | 28.4                  |     | < 0.00103         |    | < 0.00515 |   | < 0.00257    |    | < 0.00669     |         | -          | < 0.101          |       | 9.30   |   | 41.3  |       |   | 50.6                     |       |
|           |             | 2-3                   | 76.1                    | -   | 59.1                  |     | < 0.00107         |    | < 0.00537 |   | < 0.00269    |    | < 0.00699     |         | -          | < 0.104          |       | 2.33   | J | 6.16  | B     |   | 8.49                     |       |
|           |             | 3-4                   | -                       | -   | 82.1                  |     | < 0.00106         |    | < 0.00530 |   | < 0.00265    |    | < 0.00689     |         | -          | < 0.103          |       | < 4.12 |   | 1.05  | J     |   | 1.05                     |       |
|           |             | 4-5                   | 32.1                    | -   | 20.4                  | J   | < 0.00112         |    | < 0.00559 |   | < 0.00280    |    | < 0.00272     |         | -          | < 0.106          |       | 2.05   | J | 0.753 | J     |   | 2.80                     |       |
| BH-11     | 4/8/2021    | 0-1                   | 25.8                    | -   | 25.4                  |     | < 0.00110         |    | < 0.00548 |   | < 0.00274    |    | 0.00150       | J       | 0.00150    | 0.213            |       | 3.49   | J | 25.7  |       |   | 29.4                     |       |
|           |             | 2-3                   | -                       | -   | 39.1                  | P1  | < 0.00118         | J3 | < 0.00591 |   | < 0.00295    | J3 | < 0.00768     |         | -          | 0.100            | J     | 4.96   |   | 18.5  |       |   | 23.6                     |       |
|           |             | 3-4                   | -                       | -   | 33.7                  |     | < 0.00109         |    | < 0.00546 |   | < 0.00273    |    | < 0.00709     |         | -          | 0.0581           | J     | 3.69   | J | 9.20  |       |   | 12.9                     |       |
|           |             | 4-5                   | 21.5                    | -   | 14.6                  | J   | < 0.00105         |    | < 0.00527 |   | < 0.00264    |    | < 0.00685     |         | -          | 0.0244           | J     | 2.58   | J | 4.65  |       |   | 7.25                     |       |
| BH-12     | 4/8/2021    | 0-1                   | 100                     | -   | 379                   |     | < 0.00109         |    | < 0.00543 |   | < 0.00272    |    | < 0.00706     |         | -          | < 0.104          |       | 3.72   | J | 17.1  |       |   | 20.8                     |       |
|           |             | 2-3                   | 160                     | -   | 253                   |     | < 0.00108         |    | < 0.00542 |   | < 0.00271    |    | < 0.00705     |         | -          | < 0.104          |       | < 4.17 |   | 2.37  | J     |   | 2.37                     |       |
|           |             | 3-4                   | 50.1                    | -   | 65.6                  |     | < 0.00108         |    | < 0.00538 |   | < 0.00269    |    | < 0.00699     |         | -          | < 0.104          |       | < 4.15 |   | 1.93  | J     |   | 1.93                     |       |
|           |             | 4-5                   | 20.5                    | -   | 17.7                  | J   | 0.00110           | J  | < 0.00570 |   | < 0.00285    |    | < 0.00741     | 0.00110 | < 0.107    | < 0.107          |       | < 4.28 |   | 0.893 | J     |   | 0.893                    |       |
| BH-13     | 4/8/2021    | 0-1                   | -                       | -   | 5700                  |     | < 0.00140         |    | < 0.00698 |   | < 0.00349    |    | < 0.00907     |         | -          | < 0.120          |       | 7.36   |   | 20.2  |       |   | 27.6                     |       |
|           |             | 2-3                   | 2500                    | -   | 3250                  |     | < 0.00127         |    | < 0.00636 |   | < 0.00318    |    | < 0.00827     |         | -          | < 0.114          |       | 7.80   |   | 16.1  |       |   | 23.9                     |       |
|           |             | 3-4                   | 500                     | -   | 552                   |     | < 0.00111         |    | < 0.00555 |   | < 0.00277    |    | < 0.00721     |         | -          | < 0.105          |       | < 4.22 |   | 2.86  | J     |   | 2.86                     |       |
|           |             | 4-5                   | 250                     | -   | 376                   |     | < 0.00108         |    | < 0.00541 |   | < 0.00271    |    | < 0.00703     |         | -          | 0.0523           | J     | < 4.16 |   | 2.43  | J     |   | 2.48                     |       |
| BH-14     | 4/8/2021    | 0-1                   | 359                     | -   | 337                   |     | < 0.00131         |    | < 0.00656 |   | < 0.00328    |    | < 0.00853     |         | -          | 0.107            | J     | 6.02   |   | 28.1  |       |   | 34.2                     |       |
|           |             | 2-3                   | -                       | -   | 1080                  |     | < 0.00110         |    | < 0.00551 |   | < 0.00275    |    | < 0.00716     |         | -          | < 0.105          |       | 2.61   | J | 7.20  |       |   | 9.81                     |       |
|           |             | 3-4                   | 320                     | -   | 428                   |     | < 0.00113         |    | < 0.00565 |   | < 0.00282    |    | < 0.00734     |         | -          | < 0.106          |       | 6.58   |   | 13.2  |       |   | 19.8                     |       |
|           |             | 4-5                   | 395                     | -   | 493                   |     | < 0.00111         |    | < 0.00557 |   | < 0.00278    |    | < 0.00724     |         | -          | 0.0264           | J     | 3.10   | J | 8.09  |       |   | 11.2                     |       |
| BH-15     | 4/8/2021    | 0-1                   | 79.1                    | -   | 88.8                  |     | < 0.00108         |    | < 0.00542 |   | < 0.00271    |    | < 0.00704     |         | -          | < 0.104          |       | 4.32   |   | 14.6  |       |   | 18.9                     |       |
|           |             | 2-3                   | 68.3                    | -   | 72.5                  |     | < 0.00107         |    | < 0.00534 |   | < 0.00267    |    | < 0.00694     |         | -          | < 0.103          |       | 1.71   | J | 4.43  | B     |   | 6.14                     |       |
|           |             | 3-4                   | 120                     | -   | 139                   |     | < 0.00107         |    | < 0.00537 |   | < 0.00269    |    | < 0.00699     |         | -          | < 0.104          |       | < 4.15 |   | 3.93  | B J   |   | 3.93                     |       |
|           |             | 4-5                   | 159                     | -   | 310                   |     | < 0.00115         |    | < 0.00573 |   | < 0.00287    |    | < 0.00745     |         | -          | < 0.107          |       | 1.97   | J | 4.37  | B     |   | 6.34                     |       |
| BH-16     | 4/8/2021    | 0-1                   | 80.2                    | -   | 93.0                  |     | < 0.00118         |    | < 0.00588 |   | < 0.00294    |    | < 0.00764     |         | -          | < 0.109          |       | 5.93   |   | 20.3  |       |   | 26.2                     |       |
|           |             | 2-3                   | 123                     | -   | 140                   | J3  | < 0.00105         |    | < 0.00524 |   | < 0.00262    |    | < 0.00681     |         | -          | < 0.102          |       | 4.21   |   | 10.4  |       |   | 14.6                     |       |
|           |             | 3-4                   | -                       | -   | 144                   |     | < 0.00112         |    | < 0.00558 |   | < 0.00279    | J3 | < 0.00726     |         | -          | < 0.106          |       | 3.24   | J | 5.62  | B     |   | 8.86                     |       |
|           |             | 4-5                   | 105                     | -   | 85.8                  |     | < 0.00107         |    | < 0.00535 |   | < 0.00268    |    | < 0.00696     |         | -          | < 0.103          |       | < 4.14 |   | 3.29  | B J   |   | 3.29                     |       |

## NOTES:

ft. Feet  
bgs Below ground surface  
ppm Parts per million  
mg/kg Milligrams per kilogram  
NS Not sampled  
TPH Total Petroleum Hydrocarbons  
GRO Gasoline range organics  
DRO Diesel range organics  
ORO Oil range organics  
1 EPA Method 300.0  
2 EPA Method 8260B  
3 EPA Method 8015  
4 EPA Method 8015D/GRO

**Bold and italicized values indicate exceedance of applicable Site RRAL and/or Reclamation Requirement.**  
Shaded rows indicate intervals proposed for excavation.

## QUALIFIERS:

B The same analyte is found in the associated blank.  
J The identification of the analyte is acceptable; the reported value is an estimate.  
J3 The associated batch QC was outside the established quality control range for precision.  
P1 RPD value not applicable for sample concentrations less than 5 times the reporting limit.  
T8 Sample(s) received past/too close to holding time expiration.

## **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    | NCH1903240708 |
| District RP    | 1RP-5304      |
| Facility ID    |               |
| Application ID | pCH1903241056 |

## Release Notification

### Responsible Party

|                                                           |                                                     |
|-----------------------------------------------------------|-----------------------------------------------------|
| Responsible Party ConocoPhillips                          | OGRID 217817                                        |
| Contact Name Justin Wright                                | Contact Telephone +1-575-631-9092                   |
| Contact email Justin.Wright@conocophillips.com            | Incident NCH1903240708 VGEU 19-01 @<br>30-025-20846 |
| Contact mailing address 29 Vacuum Complex Lane, Lovington |                                                     |

### Location of Release Source

Latitude 32.7905655 Longitude -103.4863052  
(NAD 83 in decimal degrees to 5 decimal places)

|                                    |                                   |
|------------------------------------|-----------------------------------|
| Site Name VGEU 19-01               | Site Type Producing Well          |
| Date Release Discovered 12-10-2018 | API# (if applicable) 30-025-20846 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| L           | 32      | 17S      | 35E   | Lea    |

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

### Nature and Volume of Release

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

|                                                    |                                                                                |                                                          |
|----------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------|
| <input type="checkbox"/> Crude Oil                 | Volume Released (bbls)                                                         | Volume Recovered (bbls)                                  |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 45                                                      | Volume Recovered (bbls) 25                               |
|                                                    | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate                | Volume Released (bbls)                                                         | Volume Recovered (bbls)                                  |
| <input type="checkbox"/> Natural Gas               | Volume Released (Mcf)                                                          | Volume Recovered (Mcf)                                   |
| <input type="checkbox"/> Other (describe)          | Volume/Weight Released (provide units)                                         | Volume/Weight Recovered (provide units)                  |

Cause of Release - – December 10, 2018 at 1500. A flowline leak resulted in a 45 BBL release. 25 BPW were recovered. Site will be remediated per NMOCD guidelines.



|                |               |
|----------------|---------------|
| Incident ID    | NCH1903240708 |
| District RP    | 1RP-5304      |
| Facility ID    |               |
| Application ID | pCH1903241056 |

|                                                                                                                                                           |                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                     | If YES, for what reason(s) does the responsible party consider this a major release?<br><br>Release greater than 25 BBL |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?<br>Email – Olivia Yu and Christina Hernandez |                                                                                                                         |

## Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <input checked="" type="checkbox"/> The source of the release has been stopped.<br><input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.<br><input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.<br><input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.                                                                                                                                                                                                                                                                                               |                                |
| If all the actions described above have <u>not</u> been undertaken, explain why:<br><br><br><br><br><br><br><br><br><br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.                                                                                                                                                                                                                                                                                                                                                                                      |                                |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. |                                |
| Printed Name: <u>Cullen Rosine</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Title: <u>HSE Specialist</u>   |
| Signature: <u><b>Cullen Rosine</b></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Date: <u>12-13-2018</u>        |
| email: <u>Cullen.j.rosine@conocophillips.com</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Telephone: <u>973-727-4779</u> |
| <b><u>OCD Only</u></b><br><br>Received by: _____ Date: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                |

|                |               |
|----------------|---------------|
| Incident ID    | NCH1903240708 |
| District RP    | 1RP-5304      |
| Facility ID    |               |
| Application ID | pCH1903241056 |

## 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?                                                                                                           | <u>102</u> (ft bgs)                                                 |
| Did this release impact groundwater or surface water?                                                                                                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?                                                              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?                                                                                                | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?                                                                                                                             | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?                                                                                                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

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

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

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

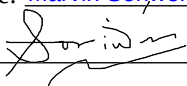
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods,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

State of New Mexico  
Oil Conservation Division

Page 4

|                |               |
|----------------|---------------|
| Incident ID    | NCH1903240708 |
| District RP    | 1RP-5304      |
| Facility ID    |               |
| Application ID | pCH1903241056 |

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: Marvin Soriwei Title: Program Manager, Risk Management & Remediation  
Signature:  Date: 8/11/2021  
email: marvin.soriwei@conocophillips.com Telephone: 8324862730

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

|                |               |
|----------------|---------------|
| Incident ID    | NCH1903240708 |
| District RP    | 1RP-5304      |
| Facility ID    |               |
| Application ID | pCH1903241056 |

## Remediation Plan

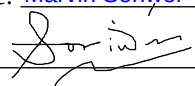
**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

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

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

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Marvin Soriwei Title: Program Manager, Risk Management & Remediation  
Signature:  Date: 8/11/2021  
email: marvin.soriwei@conocophillips.com Telephone: 8324862730

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



## **APPENDIX B**

### **NMOSE Groundwater Data**



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

| POD Number                   | POD Sub-Code | basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X      | Y        | Distance | Depth Well | Depth Water | Water Column |
|------------------------------|--------------|-------|--------|------|------|-----|-----|-----|-----|--------|----------|----------|------------|-------------|--------------|
| <a href="#">L 14183 POD2</a> | L            | LE    |        | 3    | 2    | 2   | 31  | 17S | 35E | 641304 | 3629691  | 745      | 227        | 105         | 122          |
| <a href="#">L 14183 POD1</a> | L            | LE    |        | 3    | 2    | 2   | 31  | 17S | 35E | 641266 | 3629667  | 749      | 229        | 106         | 123          |
| <a href="#">L 03875 S2</a>   | R            | L     | LE     |      |      | 2   | 31  | 17S | 35E | 641131 | 3629576* | 781      | 120        | 95          | 25           |
| <a href="#">L 03875 S4</a>   | L            | LE    |        |      |      | 2   | 31  | 17S | 35E | 641131 | 3629576* | 781      | 120        |             |              |

Average Depth to Water: **102 feet**

Minimum Depth: **95 feet**

Maximum Depth: **106 feet**

**Record Count:** 4

**UTM NAD83 Radius Search (in meters):**

**Easting (X):** 641741

**Northing (Y):** 3629087

**Radius:** 800

\*UTM location was derived from PLSS - see Help

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

3/23/21 9:50 AM

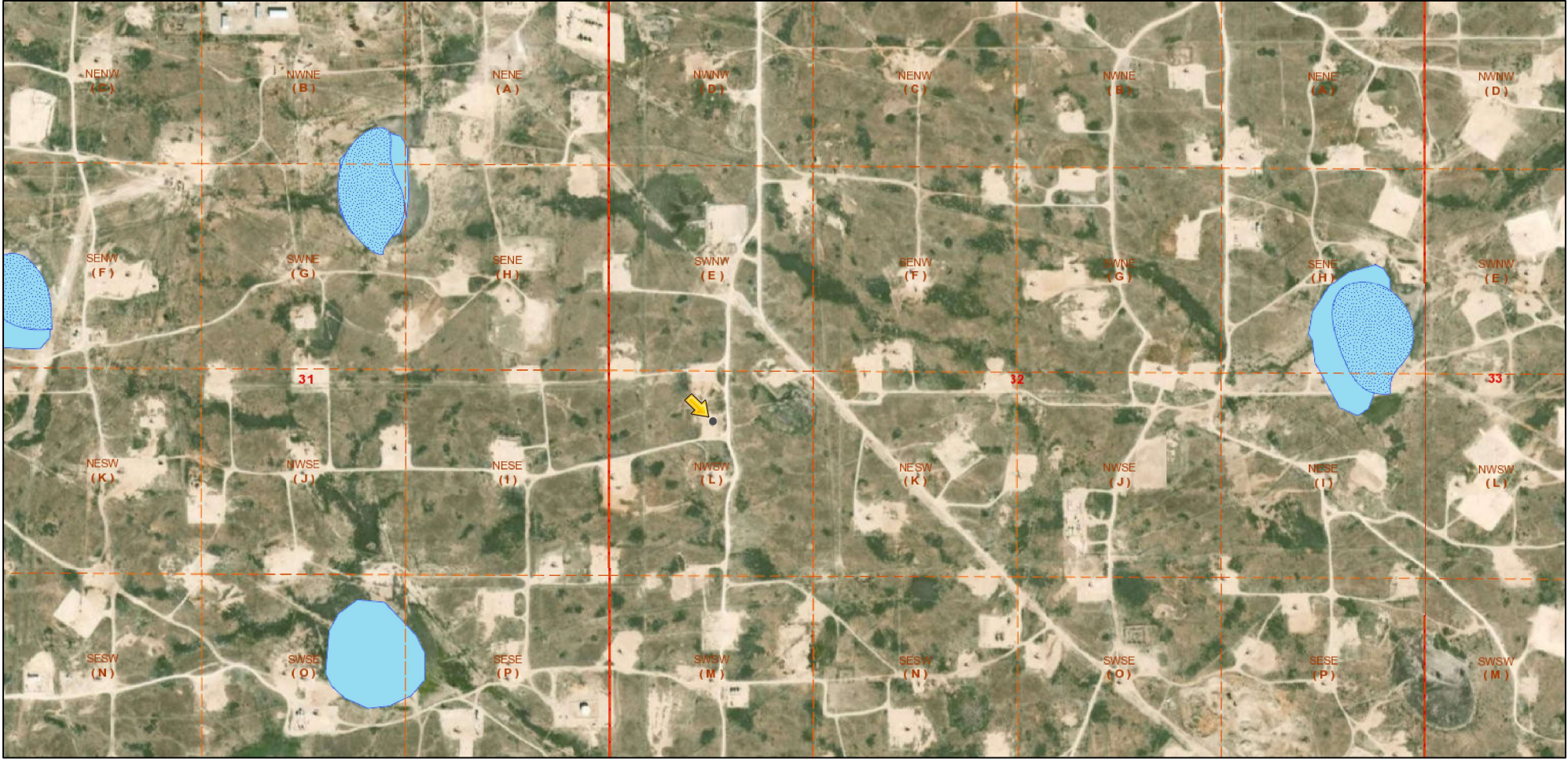
Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



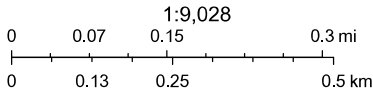


212C-MD-01840



3/23/2021, 10:40:41 AM

- Override 1
- PLSS Second Division
- OSE Streams
- OCD District Offices
- OSE Water-bodies
- PLSS First Division
- PLJV Probable Playas



USDA FSA, GeoEye, Maxar, OCD, BLM

## **APPENDIX C**

### **Boring Logs**



|                                                     |                |                   |                                |                            |                            |                         |                   |                          |                  |                   |             |                                                                                                                                  |                                                                                             |            |              |
|-----------------------------------------------------|----------------|-------------------|--------------------------------|----------------------------|----------------------------|-------------------------|-------------------|--------------------------|------------------|-------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------|--------------|
| 212C-MD-01840                                       |                | <b>TETRA TECH</b> |                                | <b>LOG OF BORING BH-1</b>  |                            |                         |                   | Page<br>1 of 1           |                  |                   |             |                                                                                                                                  |                                                                                             |            |              |
| Project Name: VGEU 19-01 Flowline Release           |                |                   |                                |                            |                            |                         |                   |                          |                  |                   |             |                                                                                                                                  |                                                                                             |            |              |
| Borehole Location: GPS: N 32.790561° E -103.486160° |                |                   |                                |                            | Surface Elevation: 3969 ft |                         |                   |                          |                  |                   |             |                                                                                                                                  |                                                                                             |            |              |
| Borehole Number: BH-1                               |                |                   |                                | Borehole Diameter (in.): 8 |                            | Date Started: 9/16/2019 |                   | Date Finished: 9/16/2019 |                  |                   |             |                                                                                                                                  |                                                                                             |            |              |
| DEPTH (ft)                                          | OPERATION TYPE | SAMPLE            | CHLORIDE FIELD SCREENING (ppm) | VOC FIELD SCREENING (ppm)  | SAMPLE RECOVERY (%)        | MOISTURE CONTENT (%)    | DRY DENSITY (pcf) | LIQUID LIMIT             | PLASTICITY INDEX | MINUS NO. 200 (%) | GRAPHIC LOG | <b>WATER LEVEL OBSERVATIONS</b><br>While Drilling <u>▽</u> DRY ft    Upon Completion of Drilling <u>▽</u> DRY ft<br><br>Remarks: |                                                                                             |            |              |
|                                                     |                |                   |                                |                            |                            |                         |                   |                          |                  |                   |             | <b>MATERIAL DESCRIPTION</b>                                                                                                      |                                                                                             | DEPTH (ft) | REMARKS      |
| 5                                                   |                |                   | 267                            | 4.3                        |                            |                         |                   |                          |                  |                   |             |                                                                                                                                  | <b>-ML-</b> SILT; Brown, medium dense to dense, with no hydrocarbon odor, with no staining. |            | BH-1 (0'-1') |
|                                                     |                |                   | 241                            | 4.1                        |                            |                         |                   |                          |                  |                   |             |                                                                                                                                  |                                                                                             | 3.5        | BH-1 (2'-3') |
|                                                     |                |                   |                                | 2.9                        |                            |                         |                   |                          |                  |                   |             |                                                                                                                                  |                                                                                             |            | BH-1 (4'-5') |
|                                                     |                |                   | 2.1                            |                            |                            |                         |                   |                          |                  |                   |             |                                                                                                                                  |                                                                                             | 7          | BH-1 (6'-7') |

Bottom of borehole at 7.0 feet.

|                                                                                                                                       |                                                                                                                                      |                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Sampler Types:</b><br>Split Spoon<br>Shelby<br>Bulk Sample<br>Grab Sample<br>Acetate Liner<br>Vane Shear<br>California<br>Test Pit | <b>Operation Types:</b><br>Mud Rotary<br>Continuous Flight Auger<br>Wash Rotary<br>Auger<br>Air Rotary<br>Core Barrel<br>Direct Push | <b>Notes:</b><br>Analytical samples are shown in the "Remarks" column.<br>Surface elevation is an estimated value. |
| <b>Logger:</b> Joe Tyler                                                                                                              |                                                                                                                                      | <b>Drilling Equipment:</b> Air Rotary                                                                              |
| <b>Driller:</b> Scarborough Drilling                                                                                                  |                                                                                                                                      |                                                                                                                    |

|                                                     |                |                   |                                |                            |                            |                         |                   |                          |                  |                   |             |                                                                                           |                                                                                      |                                 |     |              |
|-----------------------------------------------------|----------------|-------------------|--------------------------------|----------------------------|----------------------------|-------------------------|-------------------|--------------------------|------------------|-------------------|-------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------|-----|--------------|
| 212C-MD-01840                                       |                | <b>TETRA TECH</b> |                                | <b>LOG OF BORING BH-2</b>  |                            |                         |                   | Page<br>1 of 1           |                  |                   |             |                                                                                           |                                                                                      |                                 |     |              |
| Project Name: VGEU 19-01 Flowline Release           |                |                   |                                |                            |                            |                         |                   |                          |                  |                   |             |                                                                                           |                                                                                      |                                 |     |              |
| Borehole Location: GPS: N 32.790560° E -103.486260° |                |                   |                                |                            | Surface Elevation: 3970 ft |                         |                   |                          |                  |                   |             |                                                                                           |                                                                                      |                                 |     |              |
| Borehole Number: BH-2                               |                |                   |                                | Borehole Diameter (in.): 8 |                            | Date Started: 9/16/2019 |                   | Date Finished: 9/16/2019 |                  |                   |             |                                                                                           |                                                                                      |                                 |     |              |
| DEPTH (ft)                                          | OPERATION TYPE | SAMPLE            | CHLORIDE FIELD SCREENING (ppm) | VOC FIELD SCREENING (ppm)  | SAMPLE RECOVERY (%)        | MOISTURE CONTENT (%)    | DRY DENSITY (pcf) | LIQUID LIMIT             | PLASTICITY INDEX | MINUS NO. 200 (%) | GRAPHIC LOG | WATER LEVEL OBSERVATIONS                                                                  |                                                                                      |                                 |     |              |
|                                                     |                |                   |                                |                            |                            |                         |                   |                          |                  |                   |             | While Drilling <u>▽</u> DRY ft    Upon Completion of Drilling <u>▽</u> DRY ft<br>Remarks: |                                                                                      |                                 |     |              |
| MATERIAL DESCRIPTION                                |                |                   |                                |                            |                            |                         |                   |                          |                  |                   |             | DEPTH (ft)                                                                                | REMARKS                                                                              |                                 |     |              |
| 5                                                   | [Wavy Line]    | [X]               | 948                            | 3.8                        |                            |                         |                   |                          |                  |                   |             | [Hatched Box]                                                                             | -ML- SILT; Brown, medium dense to dense, with no hydrocarbon odor, with no staining. |                                 | 1.5 | BH-2 (0'-1') |
|                                                     |                |                   | 213                            | 3.2                        |                            |                         |                   |                          |                  |                   |             |                                                                                           | -CL- SILTY CLAY; Brown, medium stiff, with no hydrocarbon odor, with no staining.    |                                 |     | BH-2 (2'-3') |
|                                                     |                |                   | 382                            | 6.7                        |                            |                         |                   |                          |                  |                   |             |                                                                                           |                                                                                      | Bottom of borehole at 5.0 feet. |     | 5            |

|                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                           |                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Sampler Types:</b><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Split Spoon<br/>  Shelby<br/>  Bulk Sample<br/>  Grab Sample         </div> <div style="width: 50%;">  Acetate Liner<br/>  Vane Shear<br/>  California<br/>  Test Pit         </div> </div> | <b>Operation Types:</b><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Mud Rotary<br/>  Continuous Flight Auger<br/>  Wash Rotary         </div> <div style="width: 50%;">  Auger<br/>  Air Rotary<br/>  Core Barrel<br/>  Direct Push         </div> </div> | <b>Notes:</b><br>Analytical samples are shown in the "Remarks" column.<br>Surface elevation is an estimated value. |
| <b>Logger:</b> Joe Tyler                                                                                                                                                                                                                                                                      | <b>Drilling Equipment:</b> Air Rotary                                                                                                                                                                                                                                                     | <b>Driller:</b> Scarborough Drilling                                                                               |

|                                                     |                |                   |                                |                            |                            |                         |                   |                          |                  |                   |             |                                                                                                                                  |            |         |              |  |
|-----------------------------------------------------|----------------|-------------------|--------------------------------|----------------------------|----------------------------|-------------------------|-------------------|--------------------------|------------------|-------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------|------------|---------|--------------|--|
| 212C-MD-01840                                       |                | <b>TETRA TECH</b> |                                | <b>LOG OF BORING BH-3</b>  |                            |                         |                   | Page<br>1 of 1           |                  |                   |             |                                                                                                                                  |            |         |              |  |
| Project Name: VGEU 19-01 Flowline Release           |                |                   |                                |                            |                            |                         |                   |                          |                  |                   |             |                                                                                                                                  |            |         |              |  |
| Borehole Location: GPS: N 32.790636° E -103.486285° |                |                   |                                |                            | Surface Elevation: 3969 ft |                         |                   |                          |                  |                   |             |                                                                                                                                  |            |         |              |  |
| Borehole Number: BH-3                               |                |                   |                                | Borehole Diameter (in.): 8 |                            | Date Started: 9/16/2019 |                   | Date Finished: 9/16/2019 |                  |                   |             |                                                                                                                                  |            |         |              |  |
| DEPTH (ft)                                          | OPERATION TYPE | SAMPLE            | CHLORIDE FIELD SCREENING (ppm) | VOC FIELD SCREENING (ppm)  | SAMPLE RECOVERY (%)        | MOISTURE CONTENT (%)    | DRY DENSITY (pcf) | LIQUID LIMIT             | PLASTICITY INDEX | MINUS NO. 200 (%) | GRAPHIC LOG | <b>WATER LEVEL OBSERVATIONS</b><br>While Drilling <u>▽</u> DRY ft    Upon Completion of Drilling <u>▽</u> DRY ft<br><br>Remarks: |            |         |              |  |
|                                                     |                |                   |                                |                            |                            |                         |                   |                          |                  |                   |             | MATERIAL DESCRIPTION                                                                                                             | DEPTH (ft) | REMARKS |              |  |
| 5                                                   |                |                   | 143                            | 4.8                        |                            |                         |                   |                          |                  |                   |             | -ML- SILT; Brown, medium dense, with few gravel, with low hydrocarbon odor, with no staining.                                    |            | 1.5     | BH-3 (0'-1') |  |
|                                                     |                |                   |                                | 3.7                        |                            |                         |                   |                          |                  |                   |             | -SM- SILTY SAND; White, loose, with heavy gravel, with no hydrocarbon odor, with no staining.                                    |            |         | BH-3 (2'-3') |  |
|                                                     |                |                   |                                | 3.6                        |                            |                         |                   |                          |                  |                   |             |                                                                                                                                  |            | 5       | BH-3 (4'-5') |  |
| Bottom of borehole at 5.0 feet.                     |                |                   |                                |                            |                            |                         |                   |                          |                  |                   |             |                                                                                                                                  |            |         |              |  |

|                                                                              |                                                       |                                                                                 |                                                   |                                                                                                                    |
|------------------------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Sampler Types:</b><br>Split Spoon<br>Shelby<br>Bulk Sample<br>Grab Sample | Acetate Liner<br>Vane Shear<br>California<br>Test Pit | <b>Operation Types:</b><br>Mud Rotary<br>Continuous Flight Auger<br>Wash Rotary | Auger<br>Air Rotary<br>Core Barrel<br>Direct Push | <b>Notes:</b><br>Analytical samples are shown in the "Remarks" column.<br>Surface elevation is an estimated value. |
| <b>Logger:</b> Joe Tyler                                                     |                                                       | <b>Drilling Equipment:</b> Air Rotary                                           |                                                   | <b>Driller:</b> Scarborough Drilling                                                                               |

|                                                     |                |                   |                                |                            |                     |                            |                   |                          |                  |                   |             |                                                                                                                                  |            |              |
|-----------------------------------------------------|----------------|-------------------|--------------------------------|----------------------------|---------------------|----------------------------|-------------------|--------------------------|------------------|-------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------|------------|--------------|
| 212C-MD-01840                                       |                | <b>TETRA TECH</b> |                                | <b>LOG OF BORING BH-4</b>  |                     |                            |                   | Page<br>1 of 1           |                  |                   |             |                                                                                                                                  |            |              |
| Project Name: VGEU 19-01 Flowline Release           |                |                   |                                |                            |                     |                            |                   |                          |                  |                   |             |                                                                                                                                  |            |              |
| Borehole Location: GPS: N 32.790744° E -103.486111° |                |                   |                                |                            |                     | Surface Elevation: 3970 ft |                   |                          |                  |                   |             |                                                                                                                                  |            |              |
| Borehole Number: BH-4                               |                |                   |                                | Borehole Diameter (in.): 8 |                     | Date Started: 9/16/2019    |                   | Date Finished: 9/16/2019 |                  |                   |             |                                                                                                                                  |            |              |
| DEPTH (ft)                                          | OPERATION TYPE | SAMPLE            | CHLORIDE FIELD SCREENING (ppm) | VOC FIELD SCREENING (ppm)  | SAMPLE RECOVERY (%) | MOISTURE CONTENT (%)       | DRY DENSITY (pcf) | LIQUID LIMIT             | PLASTICITY INDEX | MINUS NO. 200 (%) | GRAPHIC LOG | <b>WATER LEVEL OBSERVATIONS</b><br>While Drilling <u>▽</u> DRY ft    Upon Completion of Drilling <u>▽</u> DRY ft<br><br>Remarks: |            |              |
|                                                     |                |                   | ExStik                         | PID                        |                     |                            |                   | LL                       | PI               |                   |             | MATERIAL DESCRIPTION                                                                                                             | DEPTH (ft) | REMARKS      |
| 5                                                   | [Symbol]       | [Symbol]          | 1620                           | 4.8                        |                     |                            |                   |                          |                  |                   | [Symbol]    | -ML- SILT; Brown, loose to medium dense, with few gravel, with no hydrocarbon odor, with no staining.                            | 3.5        | BH-4 (0'-1') |
|                                                     |                |                   |                                |                            |                     |                            |                   |                          |                  |                   | [Symbol]    | -SM- SILTY SAND; White, loose, with heavy gravel, with no hydrocarbon odor, with no staining.                                    | 5          | BH-4 (2'-3') |
|                                                     |                |                   | 113                            | 4.9                        |                     |                            |                   |                          |                  |                   | [Symbol]    |                                                                                                                                  | 5          | BH-4 (4'-5') |

Bottom of borehole at 5.0 feet.

|                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                           |                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Sampler Types:</b><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Split Spoon<br/>  Shelby<br/>  Bulk Sample<br/>  Grab Sample         </div> <div style="width: 50%;">  Acetate Liner<br/>  Vane Shear<br/>  California<br/>  Test Pit         </div> </div> | <b>Operation Types:</b><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Mud Rotary<br/>  Continuous Flight Auger<br/>  Wash Rotary         </div> <div style="width: 50%;">  Auger<br/>  Air Rotary<br/>  Core Barrel<br/>  Direct Push         </div> </div> | <b>Notes:</b><br>Analytical samples are shown in the "Remarks" column.<br>Surface elevation is an estimated value. |
| <b>Logger:</b> Joe Tyler                                                                                                                                                                                                                                                                      | <b>Drilling Equipment:</b> Air Rotary                                                                                                                                                                                                                                                     | <b>Driller:</b> Scarborough Drilling                                                                               |

|                                                     |  |                   |  |                            |                            |                         |  |                          |  |
|-----------------------------------------------------|--|-------------------|--|----------------------------|----------------------------|-------------------------|--|--------------------------|--|
| 212C-MD-01840                                       |  | <b>TETRA TECH</b> |  | <b>LOG OF BORING BH-5</b>  |                            |                         |  | Page<br>1 of 2           |  |
| Project Name: VGEU 19-01 Flowline Release           |  |                   |  |                            |                            |                         |  |                          |  |
| Borehole Location: GPS: N 32.790624° E -103.486441° |  |                   |  |                            | Surface Elevation: 3971 ft |                         |  |                          |  |
| Borehole Number: BH-5                               |  |                   |  | Borehole Diameter (in.): 8 |                            | Date Started: 9/16/2019 |  | Date Finished: 9/16/2019 |  |

| DEPTH (ft) | OPERATION TYPE | SAMPLE | CHLORIDE FIELD SCREENING (ppm) | VOC FIELD SCREENING (ppm) | SAMPLE RECOVERY (%) | MOISTURE CONTENT (%) | DRY DENSITY (pcf) | LIQUID LIMIT | PLASTICITY INDEX | MINUS NO. 200 (%) | GRAPHIC LOG                                                                                                                        | WATER LEVEL OBSERVATIONS                                                                  |                                                                                  | DEPTH (ft)    | REMARKS        |
|------------|----------------|--------|--------------------------------|---------------------------|---------------------|----------------------|-------------------|--------------|------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------|----------------|
|            |                |        |                                |                           |                     |                      |                   |              |                  |                   |                                                                                                                                    | While Drilling                                                                            | Upon Completion of Drilling                                                      |               |                |
|            |                |        |                                |                           |                     |                      |                   |              |                  |                   |                                                                                                                                    | While Drilling <u>▽</u> DRY ft    Upon Completion of Drilling <u>▽</u> DRY ft<br>Remarks: |                                                                                  |               |                |
|            |                |        |                                |                           |                     |                      |                   |              |                  |                   |                                                                                                                                    | MATERIAL DESCRIPTION                                                                      |                                                                                  |               |                |
| 5          |                |        | 2420                           | 3.8                       |                     |                      |                   |              |                  |                   |                                                                                                                                    |                                                                                           | <b>-ML-</b> SILT; Brown, dense, with low hydrocarbon odor, with little staining. | 1.5           | BH-5 (0'-1')   |
|            |                |        |                                |                           |                     |                      |                   |              |                  |                   | <b>-ML-</b> SILT; Brown, medium dense to dense, with few gravel, with no hydrocarbon odor, with no staining.                       |                                                                                           | 3.5                                                                              | BH-5 (2'-3')  |                |
|            |                |        | 1290                           | 3.4                       |                     |                      |                   |              |                  |                   | <b>-SM-</b> SILTY SAND; White, loose, with heavy gravel, with no hydrocarbon odor, with no staining.                               |                                                                                           | 5.5                                                                              | BH-5 (4'-5')  |                |
|            |                |        | 1970                           | 3.1                       |                     |                      |                   |              |                  |                   | <b>-SM-</b> SILTY SAND; White to tan, loose to medium dense, cemented with gravel mix, with no hydrocarbon odor, with no staining. |                                                                                           |                                                                                  | BH-5 (6'-7')  |                |
| 10         |                |        | 2990                           | 1.2                       |                     |                      |                   |              |                  |                   |                                                                                                                                    |                                                                                           |                                                                                  | BH-5 (9'-10') |                |
| 15         |                |        | 2620                           | 1.1                       |                     |                      |                   |              |                  |                   |                                                                                                                                    |                                                                                           |                                                                                  |               | BH-5 (14'-15') |
| 20         |                |        | 1200                           | 1.6                       |                     |                      |                   |              |                  |                   |                                                                                                                                    |                                                                                           |                                                                                  |               | BH-5 (19'-20') |
| 25         |                |        | 554                            | 1.2                       |                     |                      |                   |              |                  |                   |                                                                                                                                    |                                                                                           |                                                                                  |               | BH-5 (24'-25') |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                    |
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| <b>Sampler Types:</b><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input checked="" type="checkbox"/> Split Spoon<br/> <input type="checkbox"/> Shelby<br/> <input type="checkbox"/> Bulk Sample<br/> <input type="checkbox"/> Grab Sample         </div> <div style="width: 50%;"> <input type="checkbox"/> Acetate Liner<br/> <input type="checkbox"/> Vane Shear<br/> <input checked="" type="checkbox"/> California<br/> <input type="checkbox"/> Test Pit         </div> </div> | <b>Operation Types:</b><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Mud Rotary<br/> <input type="checkbox"/> Continuous Flight Auger<br/> <input type="checkbox"/> Wash Rotary         </div> <div style="width: 50%;"> <input type="checkbox"/> Auger<br/> <input type="checkbox"/> Air Rotary<br/> <input type="checkbox"/> Core Barrel<br/> <input type="checkbox"/> Direct Push         </div> </div> | <b>Notes:</b><br>Analytical samples are shown in the "Remarks" column.<br>Surface elevation is an estimated value. |
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|                   |                                |                               |
|-------------------|--------------------------------|-------------------------------|
| Logger: Joe Tyler | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling |
|-------------------|--------------------------------|-------------------------------|



|                                                     |                |                   |                                |                            |                     |                         |                   |                          |                  |                   |             |                                                                                                                                                              |            |         |                |
|-----------------------------------------------------|----------------|-------------------|--------------------------------|----------------------------|---------------------|-------------------------|-------------------|--------------------------|------------------|-------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|----------------|
| 212C-MD-01840                                       |                | <b>TETRA TECH</b> |                                | <b>LOG OF BORING BH-5</b>  |                     |                         |                   | Page<br>2 of 2           |                  |                   |             |                                                                                                                                                              |            |         |                |
| Project Name: VGEU 19-01 Flowline Release           |                |                   |                                |                            |                     |                         |                   |                          |                  |                   |             |                                                                                                                                                              |            |         |                |
| Borehole Location: GPS: N 32.790624° E -103.486441° |                |                   |                                | Surface Elevation: 3971 ft |                     |                         |                   |                          |                  |                   |             |                                                                                                                                                              |            |         |                |
| Borehole Number: BH-5                               |                |                   |                                | Borehole Diameter (in.): 8 |                     | Date Started: 9/16/2019 |                   | Date Finished: 9/16/2019 |                  |                   |             |                                                                                                                                                              |            |         |                |
| DEPTH (ft)                                          | OPERATION TYPE | SAMPLE            | CHLORIDE FIELD SCREENING (ppm) | VOC FIELD SCREENING (ppm)  | SAMPLE RECOVERY (%) | MOISTURE CONTENT (%)    | DRY DENSITY (pcf) | LIQUID LIMIT             | PLASTICITY INDEX | MINUS NO. 200 (%) | GRAPHIC LOG | <b>WATER LEVEL OBSERVATIONS</b><br>While Drilling <input type="checkbox"/> DRY ft    Upon Completion of Drilling <input type="checkbox"/> DRY ft<br>Remarks: |            |         |                |
|                                                     |                |                   | ExStik                         | PID                        |                     |                         |                   |                          |                  |                   |             | MATERIAL DESCRIPTION                                                                                                                                         | DEPTH (ft) | REMARKS |                |
| 30                                                  |                |                   | 176                            | 1.2                        |                     |                         |                   |                          |                  |                   |             |                                                                                                                                                              |            | 30      | BH-5 (29'-30') |

Bottom of borehole at 30.0 feet.

|                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                           |                                                                                                                    |
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| <b>Sampler Types:</b><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Split Spoon<br/>  Shelby<br/>  Bulk Sample<br/>  Grab Sample         </div> <div style="width: 50%;">  Acetate Liner<br/>  Vane Shear<br/>  California<br/>  Test Pit         </div> </div> | <b>Operation Types:</b><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Mud Rotary<br/>  Continuous Flight Auger<br/>  Wash Rotary         </div> <div style="width: 50%;">  Auger<br/>  Air Rotary<br/>  Core Barrel<br/>  Direct Push         </div> </div> | <b>Notes:</b><br>Analytical samples are shown in the "Remarks" column.<br>Surface elevation is an estimated value. |
| Logger: Joe Tyler                                                                                                                                                                                                                                                                             | Drilling Equipment: Air Rotary                                                                                                                                                                                                                                                            | Driller: Scarborough Drilling                                                                                      |

|                                                     |                |                   |                                |                            |                            |                         |                   |                          |                  |                   |             |                                                                                           |                                                                                                                   |                                                                                                                    |              |              |               |
|-----------------------------------------------------|----------------|-------------------|--------------------------------|----------------------------|----------------------------|-------------------------|-------------------|--------------------------|------------------|-------------------|-------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------|--------------|---------------|
| 212C-MD-01840                                       |                | <b>TETRA TECH</b> |                                | <b>LOG OF BORING BH-6</b>  |                            |                         |                   | Page<br>1 of 1           |                  |                   |             |                                                                                           |                                                                                                                   |                                                                                                                    |              |              |               |
| Project Name: VGEU 19-01 Flowline Release           |                |                   |                                |                            |                            |                         |                   |                          |                  |                   |             |                                                                                           |                                                                                                                   |                                                                                                                    |              |              |               |
| Borehole Location: GPS: N 32.790691° E -103.486442° |                |                   |                                |                            | Surface Elevation: 3971 ft |                         |                   |                          |                  |                   |             |                                                                                           |                                                                                                                   |                                                                                                                    |              |              |               |
| Borehole Number: BH-6                               |                |                   |                                | Borehole Diameter (in.): 8 |                            | Date Started: 9/16/2019 |                   | Date Finished: 9/16/2019 |                  |                   |             |                                                                                           |                                                                                                                   |                                                                                                                    |              |              |               |
| DEPTH (ft)                                          | OPERATION TYPE | SAMPLE            | CHLORIDE FIELD SCREENING (ppm) | VOC FIELD SCREENING (ppm)  | SAMPLE RECOVERY (%)        | MOISTURE CONTENT (%)    | DRY DENSITY (pcf) | LIQUID LIMIT             | PLASTICITY INDEX | MINUS NO. 200 (%) | GRAPHIC LOG | WATER LEVEL OBSERVATIONS                                                                  |                                                                                                                   |                                                                                                                    |              |              |               |
|                                                     |                |                   |                                |                            |                            |                         |                   |                          |                  |                   |             | While Drilling <u>▽</u> DRY ft    Upon Completion of Drilling <u>▽</u> DRY ft<br>Remarks: |                                                                                                                   |                                                                                                                    |              |              |               |
| MATERIAL DESCRIPTION                                |                |                   |                                |                            |                            |                         |                   |                          |                  |                   |             | DEPTH (ft)                                                                                | REMARKS                                                                                                           |                                                                                                                    |              |              |               |
| 5                                                   |                |                   | 4210                           | 2.7                        |                            |                         |                   |                          |                  |                   |             |                                                                                           | <b>-ML-</b> SILT; Brown, medium dense to dense, with few gravel, with low hydrocarbon odor, with little staining. |                                                                                                                    | BH-6 (0'-1') |              |               |
|                                                     |                |                   |                                | 5.7                        |                            |                         |                   |                          |                  |                   |             |                                                                                           |                                                                                                                   |                                                                                                                    | 3.5          | BH-6 (2'-3') |               |
|                                                     |                |                   |                                | 4.3                        |                            |                         |                   |                          |                  |                   |             |                                                                                           |                                                                                                                   |                                                                                                                    |              | BH-6 (4'-5') |               |
|                                                     |                |                   |                                | 3.1                        |                            |                         |                   |                          |                  |                   |             |                                                                                           |                                                                                                                   |                                                                                                                    | BH-6 (6'-7') |              |               |
| 10                                                  |                |                   | 5420                           | 3.4                        |                            |                         |                   |                          |                  |                   |             |                                                                                           |                                                                                                                   | <b>-SM-</b> SILTY SAND; White, loose, cemented with heavy gravel, with low hydrocarbon odor, with little staining. |              | 10           | BH-6 (9'-10') |

Bottom of borehole at 10.0 feet.

|                                                                              |                                                       |                                                                                 |                                                   |                                                                                                                    |
|------------------------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Sampler Types:</b><br>Split Spoon<br>Shelby<br>Bulk Sample<br>Grab Sample | Acetate Liner<br>Vane Shear<br>California<br>Test Pit | <b>Operation Types:</b><br>Mud Rotary<br>Continuous Flight Auger<br>Wash Rotary | Auger<br>Air Rotary<br>Core Barrel<br>Direct Push | <b>Notes:</b><br>Analytical samples are shown in the "Remarks" column.<br>Surface elevation is an estimated value. |
| <b>Logger:</b> Joe Tyler                                                     |                                                       | <b>Drilling Equipment:</b> Air Rotary                                           |                                                   | <b>Driller:</b> Scarborough Drilling                                                                               |

|                                                                                                                                                                                                                              |                |                                                                                                                                                                                                       |                                |                                                                                                                                                                                             |                            |                                                                                                                                                                                                   |                   |                                                                                                                    |                  |                   |             |                                                                                                                                                 |                                                                                         |               |              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------|------------------|-------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------|--------------|
| 212C-MD-01840                                                                                                                                                                                                                |                | <b>TETRA TECH</b>                                                                                                                                                                                     |                                | <b>LOG OF BORING BH-7</b>                                                                                                                                                                   |                            |                                                                                                                                                                                                   |                   | Page<br>1 of 1                                                                                                     |                  |                   |             |                                                                                                                                                 |                                                                                         |               |              |
| Project Name: VGEU 19-01 Flowline Release                                                                                                                                                                                    |                |                                                                                                                                                                                                       |                                |                                                                                                                                                                                             |                            |                                                                                                                                                                                                   |                   |                                                                                                                    |                  |                   |             |                                                                                                                                                 |                                                                                         |               |              |
| Borehole Location: GPS: N 32.790710° E -103.486554°                                                                                                                                                                          |                |                                                                                                                                                                                                       |                                |                                                                                                                                                                                             | Surface Elevation: 3971 ft |                                                                                                                                                                                                   |                   |                                                                                                                    |                  |                   |             |                                                                                                                                                 |                                                                                         |               |              |
| Borehole Number: BH-7                                                                                                                                                                                                        |                |                                                                                                                                                                                                       |                                | Borehole Diameter (in.): 8                                                                                                                                                                  |                            | Date Started: 9/16/2019                                                                                                                                                                           |                   | Date Finished: 9/16/2019                                                                                           |                  |                   |             |                                                                                                                                                 |                                                                                         |               |              |
| DEPTH (ft)                                                                                                                                                                                                                   | OPERATION TYPE | SAMPLE                                                                                                                                                                                                | CHLORIDE FIELD SCREENING (ppm) | VOC FIELD SCREENING (ppm)                                                                                                                                                                   | SAMPLE RECOVERY (%)        | MOISTURE CONTENT (%)                                                                                                                                                                              | DRY DENSITY (pcf) | LIQUID LIMIT                                                                                                       | PLASTICITY INDEX | MINUS NO. 200 (%) | GRAPHIC LOG | WATER LEVEL OBSERVATIONS                                                                                                                        |                                                                                         |               |              |
|                                                                                                                                                                                                                              |                |                                                                                                                                                                                                       |                                |                                                                                                                                                                                             |                            |                                                                                                                                                                                                   |                   |                                                                                                                    |                  |                   |             | While Drilling <input checked="" type="checkbox"/> DRY ft    Upon Completion of Drilling <input checked="" type="checkbox"/> DRY ft<br>Remarks: |                                                                                         |               |              |
|                                                                                                                                                                                                                              |                |                                                                                                                                                                                                       |                                |                                                                                                                                                                                             |                            |                                                                                                                                                                                                   |                   |                                                                                                                    |                  |                   |             | MATERIAL DESCRIPTION                                                                                                                            | DEPTH (ft)                                                                              | REMARKS       |              |
|                                                                                                                                                                                                                              |                |                                                                                                                                                                                                       | ExStik                         | PID                                                                                                                                                                                         |                            |                                                                                                                                                                                                   |                   | LL                                                                                                                 | PI               |                   |             | <div style="background-color: #cccccc; height: 100px; width: 100%;"></div>                                                                      |                                                                                         |               |              |
|                                                                                                                                                                                                                              |                |                                                                                                                                                                                                       | 3010                           | 3.9                                                                                                                                                                                         |                            |                                                                                                                                                                                                   |                   |                                                                                                                    |                  |                   |             |                                                                                                                                                 | -ML- SILT; Brown, medium dense, with low hydrocarbon odor, with little staining.        | 1.5           | BH-7 (0'-1') |
|                                                                                                                                                                                                                              |                |                                                                                                                                                                                                       |                                | 4.4                                                                                                                                                                                         |                            |                                                                                                                                                                                                   |                   |                                                                                                                    |                  |                   |             |                                                                                                                                                 | -CL- SANDY CLAY; Brown, medium stiff, with no hydrocarbon odor, with no staining.       |               | BH-7 (2'-3') |
| 5                                                                                                                                                                                                                            |                |                                                                                                                                                                                                       |                                | 3.5                                                                                                                                                                                         |                            |                                                                                                                                                                                                   |                   |                                                                                                                    |                  |                   |             |                                                                                                                                                 |                                                                                         | 5.5           | BH-7 (4'-5') |
|                                                                                                                                                                                                                              |                |                                                                                                                                                                                                       |                                | 3.1                                                                                                                                                                                         |                            |                                                                                                                                                                                                   |                   |                                                                                                                    |                  |                   |             |                                                                                                                                                 | -SM- SILTY SAND; White, loose, with gravel, with no hydrocarbon odor, with no staining. |               | BH-7 (6'-7') |
| 10                                                                                                                                                                                                                           |                |                                                                                                                                                                                                       | 2990                           | 5.8                                                                                                                                                                                         |                            |                                                                                                                                                                                                   |                   |                                                                                                                    |                  |                   |             |                                                                                                                                                 | 10                                                                                      | BH-7 (9'-10') |              |
| Bottom of borehole at 10.0 feet.                                                                                                                                                                                             |                |                                                                                                                                                                                                       |                                |                                                                                                                                                                                             |                            |                                                                                                                                                                                                   |                   |                                                                                                                    |                  |                   |             |                                                                                                                                                 |                                                                                         |               |              |
|                                                                                                                                                                                                                              |                |                                                                                                                                                                                                       |                                |                                                                                                                                                                                             |                            |                                                                                                                                                                                                   |                   |                                                                                                                    |                  |                   |             |                                                                                                                                                 |                                                                                         |               |              |
| <b>Sampler Types:</b><br><input checked="" type="checkbox"/> Split Spoon<br><input checked="" type="checkbox"/> Shelby<br><input checked="" type="checkbox"/> Bulk Sample<br><input checked="" type="checkbox"/> Grab Sample |                | <input checked="" type="checkbox"/> Acetate Liner<br><input checked="" type="checkbox"/> Vane Shear<br><input checked="" type="checkbox"/> California<br><input checked="" type="checkbox"/> Test Pit |                                | <b>Operation Types:</b><br><input checked="" type="checkbox"/> Mud Rotary<br><input checked="" type="checkbox"/> Continuous Flight Auger<br><input checked="" type="checkbox"/> Wash Rotary |                            | <input checked="" type="checkbox"/> Auger<br><input checked="" type="checkbox"/> Air Rotary<br><input checked="" type="checkbox"/> Core Barrel<br><input checked="" type="checkbox"/> Direct Push |                   | <b>Notes:</b><br>Analytical samples are shown in the "Remarks" column.<br>Surface elevation is an estimated value. |                  |                   |             |                                                                                                                                                 |                                                                                         |               |              |
| Logger: Joe Tyler                                                                                                                                                                                                            |                |                                                                                                                                                                                                       |                                | Drilling Equipment: Air Rotary                                                                                                                                                              |                            |                                                                                                                                                                                                   |                   | Driller: Scarborough Drilling                                                                                      |                  |                   |             |                                                                                                                                                 |                                                                                         |               |              |

|                                                     |                |                   |                                |                            |                            |                         |                   |                          |                  |                   |             |                                                                                                                                  |                                                                                                           |                                                                                                |                                                                                                |              |
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| 212C-MD-01840                                       |                | <b>TETRA TECH</b> |                                | <b>LOG OF BORING BH-8</b>  |                            |                         |                   | Page<br>1 of 1           |                  |                   |             |                                                                                                                                  |                                                                                                           |                                                                                                |                                                                                                |              |
| Project Name: VGEU 19-01 Flowline Release           |                |                   |                                |                            |                            |                         |                   |                          |                  |                   |             |                                                                                                                                  |                                                                                                           |                                                                                                |                                                                                                |              |
| Borehole Location: GPS: N 32.790565° E -103.486557° |                |                   |                                |                            | Surface Elevation: 3972 ft |                         |                   |                          |                  |                   |             |                                                                                                                                  |                                                                                                           |                                                                                                |                                                                                                |              |
| Borehole Number: BH-8                               |                |                   |                                | Borehole Diameter (in.): 8 |                            | Date Started: 9/16/2019 |                   | Date Finished: 9/16/2019 |                  |                   |             |                                                                                                                                  |                                                                                                           |                                                                                                |                                                                                                |              |
| DEPTH (ft)                                          | OPERATION TYPE | SAMPLE            | CHLORIDE FIELD SCREENING (ppm) | VOC FIELD SCREENING (ppm)  | SAMPLE RECOVERY (%)        | MOISTURE CONTENT (%)    | DRY DENSITY (pcf) | LIQUID LIMIT             | PLASTICITY INDEX | MINUS NO. 200 (%) | GRAPHIC LOG | <b>WATER LEVEL OBSERVATIONS</b><br>While Drilling <u>▽</u> DRY ft    Upon Completion of Drilling <u>▽</u> DRY ft<br><br>Remarks: |                                                                                                           |                                                                                                |                                                                                                |              |
|                                                     |                |                   |                                |                            |                            |                         |                   |                          |                  |                   |             | <b>MATERIAL DESCRIPTION</b>                                                                                                      | DEPTH (ft)                                                                                                | REMARKS                                                                                        |                                                                                                |              |
| 5                                                   | [Symbol]       | [Symbol]          | 331                            | 4.8                        |                            |                         |                   |                          |                  |                   |             | 3.5                                                                                                                              | <b>-ML-</b> SILT; Brown, loose to medium dense, with gravel, with low hydrocarbon odor, with no staining. |                                                                                                | BH-8 (0'-1')                                                                                   |              |
|                                                     |                |                   |                                | 6.5                        |                            |                         |                   |                          |                  |                   |             |                                                                                                                                  | <b>-SM-</b> SILTY SAND; White, loose, with gravel, with no hydrocarbon odor, with no staining.            |                                                                                                | BH-8 (2'-3')                                                                                   |              |
|                                                     |                |                   | 102                            | 6.3                        |                            |                         |                   |                          |                  |                   |             |                                                                                                                                  |                                                                                                           | <b>-SM-</b> SILTY SAND; White, loose, with gravel, with no hydrocarbon odor, with no staining. |                                                                                                | BH-8 (4'-5') |
|                                                     |                |                   |                                | 5.5                        |                            |                         |                   |                          |                  |                   |             |                                                                                                                                  |                                                                                                           |                                                                                                | <b>-SM-</b> SILTY SAND; White, loose, with gravel, with no hydrocarbon odor, with no staining. |              |

Bottom of borehole at 7.0 feet.

|                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                           |                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Sampler Types:</b><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Split Spoon<br/>  Shelby<br/>  Bulk Sample<br/>  Grab Sample         </div> <div style="width: 50%;">  Acetate Liner<br/>  Vane Shear<br/>  California<br/>  Test Pit         </div> </div> | <b>Operation Types:</b><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Mud Rotary<br/>  Continuous Flight Auger<br/>  Wash Rotary         </div> <div style="width: 50%;">  Auger<br/>  Air Rotary<br/>  Core Barrel<br/>  Direct Push         </div> </div> | <b>Notes:</b><br>Analytical samples are shown in the "Remarks" column.<br>Surface elevation is an estimated value. |
| <b>Logger:</b> Joe Tyler                                                                                                                                                                                                                                                                      | <b>Drilling Equipment:</b> Air Rotary                                                                                                                                                                                                                                                     | <b>Driller:</b> Scarborough Drilling                                                                               |

|                                                     |                |                   |                                |                            |                            |                         |                   |                          |                  |                   |             |                                                                                                                                  |                                                                                                |         |  |              |
|-----------------------------------------------------|----------------|-------------------|--------------------------------|----------------------------|----------------------------|-------------------------|-------------------|--------------------------|------------------|-------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------|--|--------------|
| 212C-MD-01840                                       |                | <b>TETRA TECH</b> |                                | <b>LOG OF BORING BH-9</b>  |                            |                         |                   | Page<br>1 of 1           |                  |                   |             |                                                                                                                                  |                                                                                                |         |  |              |
| Project Name: VGEU 19-01 Flowline Release           |                |                   |                                |                            |                            |                         |                   |                          |                  |                   |             |                                                                                                                                  |                                                                                                |         |  |              |
| Borehole Location: GPS: N 32.790491° E -103.486308° |                |                   |                                |                            | Surface Elevation: 3970 ft |                         |                   |                          |                  |                   |             |                                                                                                                                  |                                                                                                |         |  |              |
| Borehole Number: BH-9                               |                |                   |                                | Borehole Diameter (in.): 8 |                            | Date Started: 9/16/2019 |                   | Date Finished: 9/16/2019 |                  |                   |             |                                                                                                                                  |                                                                                                |         |  |              |
| DEPTH (ft)                                          | OPERATION TYPE | SAMPLE            | CHLORIDE FIELD SCREENING (ppm) | VOC FIELD SCREENING (ppm)  | SAMPLE RECOVERY (%)        | MOISTURE CONTENT (%)    | DRY DENSITY (pcf) | LIQUID LIMIT             | PLASTICITY INDEX | MINUS NO. 200 (%) | GRAPHIC LOG | <b>WATER LEVEL OBSERVATIONS</b><br>While Drilling <u>▽</u> DRY ft    Upon Completion of Drilling <u>▽</u> DRY ft<br><br>Remarks: |                                                                                                |         |  |              |
|                                                     |                |                   | ExStik                         | PID                        |                            |                         |                   | LL                       | PI               |                   |             | MATERIAL DESCRIPTION                                                                                                             | DEPTH (ft)                                                                                     | REMARKS |  |              |
| 5                                                   | [Wavy Line]    | [X]               | 310                            | 2.9                        |                            |                         |                   |                          |                  |                   |             | [Pattern]                                                                                                                        | <b>-SM-</b> SILTY SAND; White, loose, with gravel, with no hydrocarbon odor, with no staining. |         |  | BH-9 (0'-1') |
|                                                     |                |                   | 589                            | 2.8                        |                            |                         |                   |                          |                  |                   |             |                                                                                                                                  |                                                                                                |         |  | BH-9 (2'-3') |
|                                                     |                |                   | 572                            | 2.4                        |                            |                         |                   |                          |                  |                   |             |                                                                                                                                  |                                                                                                |         |  | BH-9 (4'-5') |
|                                                     |                |                   | 271                            | 2.1                        |                            |                         |                   |                          |                  |                   |             |                                                                                                                                  |                                                                                                |         |  | BH-9 (6'-7') |

Bottom of borehole at 7.0 feet.

|                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                           |                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Sampler Types:</b><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Split Spoon<br/>  Shelby<br/>  Bulk Sample<br/>  Grab Sample         </div> <div style="width: 50%;">  Acetate Liner<br/>  Vane Shear<br/>  California<br/>  Test Pit         </div> </div> | <b>Operation Types:</b><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Mud Rotary<br/>  Continuous Flight Auger<br/>  Wash Rotary         </div> <div style="width: 50%;">  Auger<br/>  Air Rotary<br/>  Core Barrel<br/>  Direct Push         </div> </div> | <b>Notes:</b><br>Analytical samples are shown in the "Remarks" column.<br>Surface elevation is an estimated value. |
| <b>Logger:</b> Joe Tyler                                                                                                                                                                                                                                                                      | <b>Drilling Equipment:</b> Air Rotary                                                                                                                                                                                                                                                     | <b>Driller:</b> Scarborough Drilling                                                                               |



## **APPENDIX D**

# **Laboratory Analytical Reports**



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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March 06, 2019

JUSTIN WRIGHT

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: VGEU 19-01

Enclosed are the results of analyses for samples received by the laboratory on 03/01/19 11:20.

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

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

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

Received: 03/01/2019  
 Reported: 03/06/2019  
 Project Name: VGEU 19-01  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

Sampling Date: 02/28/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 - 1' (H900821-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/05/2019 | ND              | 1.92 | 95.9       | 2.00          | 1.39 |           |
| Toluene*       | <0.050 | 0.050           | 03/05/2019 | ND              | 2.03 | 101        | 2.00          | 2.11 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/05/2019 | ND              | 1.95 | 97.7       | 2.00          | 4.32 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/05/2019 | ND              | 5.65 | 94.2       | 6.00          | 4.59 |           |
| Total BTEX     | <0.300 | 0.300           | 03/05/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 3440   | 16.0            | 03/06/2019 | ND              | 400 | 100        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 03/04/2019 | ND              | 230 | 115        | 200           | 2.65 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/04/2019 | ND              | 217 | 109        | 200           | 6.25 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/04/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 91.3 % 41-142

Surrogate: 1-Chlorooctadecane 93.9 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

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

Received: 03/01/2019  
 Reported: 03/06/2019  
 Project Name: VGEU 19-01  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

Sampling Date: 02/28/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 - 3' (H900821-02)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 03/05/2019 | ND              | 1.92 | 95.9       | 2.00          | 1.39 |           |  |
| Toluene*       | <0.050 | 0.050           | 03/05/2019 | ND              | 2.03 | 101        | 2.00          | 2.11 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 03/05/2019 | ND              | 1.95 | 97.7       | 2.00          | 4.32 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 03/05/2019 | ND              | 5.65 | 94.2       | 6.00          | 4.59 |           |  |
| Total BTX      | <0.300 | 0.300           | 03/05/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 03/06/2019 | ND              | 400 | 100        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 03/04/2019 | ND              | 230 | 115        | 200           | 2.65 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/04/2019 | ND              | 217 | 109        | 200           | 6.25 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/04/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 89.7 % 41-142

Surrogate: 1-Chlorooctadecane 92.5 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

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

Received: 03/01/2019  
 Reported: 03/06/2019  
 Project Name: VGEU 19-01  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

Sampling Date: 02/28/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 - 1' (H900821-03)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 03/04/2019 | ND              | 1.89 | 94.4       | 2.00          | 11.6 |           |  |
| Toluene*       | <0.050 | 0.050           | 03/04/2019 | ND              | 1.95 | 97.6       | 2.00          | 12.8 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 03/04/2019 | ND              | 1.85 | 92.5       | 2.00          | 13.7 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 03/04/2019 | ND              | 5.39 | 89.8       | 6.00          | 13.7 |           |  |
| Total BTEx     | <0.300 | 0.300           | 03/04/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 03/06/2019 | ND              | 400 | 100        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 03/04/2019 | ND              | 230 | 115        | 200           | 2.65 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/04/2019 | ND              | 217 | 109        | 200           | 6.25 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/04/2019 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 90.2 % 41-142

Surrogate: 1-Chlorooctadecane 91.7 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

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

Received: 03/01/2019  
 Reported: 03/06/2019  
 Project Name: VGEU 19-01  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

Sampling Date: 02/28/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 - 3' (H900821-04)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/04/2019 | ND              | 1.89 | 94.4       | 2.00          | 11.6 |           |
| Toluene*       | <0.050 | 0.050           | 03/04/2019 | ND              | 1.95 | 97.6       | 2.00          | 12.8 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/04/2019 | ND              | 1.85 | 92.5       | 2.00          | 13.7 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/04/2019 | ND              | 5.39 | 89.8       | 6.00          | 13.7 |           |
| Total BTX      | <0.300 | 0.300           | 03/04/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 64.0   | 16.0            | 03/06/2019 | ND              | 400 | 100        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 03/04/2019 | ND              | 209 | 104        | 200           | 0.367 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/04/2019 | ND              | 216 | 108        | 200           | 1.12  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/04/2019 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 92.6 % 41-142

Surrogate: 1-Chlorooctadecane 94.4 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

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

Received: 03/01/2019  
 Reported: 03/06/2019  
 Project Name: VGEU 19-01  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

Sampling Date: 02/28/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 - 1' (H900821-05)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/04/2019 | ND              | 1.89 | 94.4       | 2.00          | 11.6 |           |
| Toluene*       | <0.050 | 0.050           | 03/04/2019 | ND              | 1.95 | 97.6       | 2.00          | 12.8 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/04/2019 | ND              | 1.85 | 92.5       | 2.00          | 13.7 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/04/2019 | ND              | 5.39 | 89.8       | 6.00          | 13.7 |           |
| Total BTEX     | <0.300 | 0.300           | 03/04/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 16.0   | 16.0            | 03/06/2019 | ND              | 400 | 100        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 03/04/2019 | ND              | 209 | 104        | 200           | 0.367 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/04/2019 | ND              | 216 | 108        | 200           | 1.12  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/04/2019 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 89.0 % 41-142

Surrogate: 1-Chlorooctadecane 89.0 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

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

Received: 03/01/2019  
 Reported: 03/06/2019  
 Project Name: VGEU 19-01  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

Sampling Date: 02/28/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 - 3' (H900821-06)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 03/04/2019 | ND              | 1.89 | 94.4       | 2.00          | 11.6 |           |  |
| Toluene*       | <0.050 | 0.050           | 03/04/2019 | ND              | 1.95 | 97.6       | 2.00          | 12.8 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 03/04/2019 | ND              | 1.85 | 92.5       | 2.00          | 13.7 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 03/04/2019 | ND              | 5.39 | 89.8       | 6.00          | 13.7 |           |  |
| Total BTX      | <0.300 | 0.300           | 03/04/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 160    | 16.0            | 03/06/2019 | ND              | 400 | 100        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 03/04/2019 | ND              | 209 | 104        | 200           | 0.367 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/04/2019 | ND              | 216 | 108        | 200           | 1.12  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/04/2019 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 93.9 % 41-142

Surrogate: 1-Chlorooctadecane 95.8 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

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

Received: 03/01/2019  
 Reported: 03/06/2019  
 Project Name: VGEU 19-01  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

Sampling Date: 02/28/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 - 1' (H900821-07)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 03/04/2019 | ND              | 1.89 | 94.4       | 2.00          | 11.6 |           |  |
| Toluene*       | <0.050 | 0.050           | 03/04/2019 | ND              | 1.95 | 97.6       | 2.00          | 12.8 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 03/04/2019 | ND              | 1.85 | 92.5       | 2.00          | 13.7 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 03/04/2019 | ND              | 5.39 | 89.8       | 6.00          | 13.7 |           |  |
| Total BTX      | <0.300 | 0.300           | 03/04/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 8000   | 16.0            | 03/06/2019 | ND              | 400 | 100        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               | S-04  |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 03/04/2019 | ND              | 209 | 104        | 200           | 0.367 |           |
| DRO >C10-C28*    | 1610   | 10.0            | 03/04/2019 | ND              | 216 | 108        | 200           | 1.12  |           |
| EXT DRO >C28-C36 | 217    | 10.0            | 03/04/2019 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 93.3 % 41-142

Surrogate: 1-Chlorooctadecane 148 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

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

Received: 03/01/2019  
 Reported: 03/06/2019  
 Project Name: VGEU 19-01  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

Sampling Date: 02/28/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 - 3' (H900821-08)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/04/2019 | ND              | 1.89 | 94.4       | 2.00          | 11.6 |           |
| Toluene*       | <0.050 | 0.050           | 03/04/2019 | ND              | 1.95 | 97.6       | 2.00          | 12.8 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/04/2019 | ND              | 1.85 | 92.5       | 2.00          | 13.7 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/04/2019 | ND              | 5.39 | 89.8       | 6.00          | 13.7 |           |
| Total BTX      | <0.300 | 0.300           | 03/04/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 2240   | 16.0            | 03/06/2019 | ND              | 400 | 100        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 03/04/2019 | ND              | 209 | 104        | 200           | 0.367 |           |
| DRO >C10-C28*    | 23.1   | 10.0            | 03/04/2019 | ND              | 216 | 108        | 200           | 1.12  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/04/2019 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 86.7 % 41-142

Surrogate: 1-Chlorooctadecane 88.6 % 37.6-147

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

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

Received: 03/01/2019  
 Reported: 03/06/2019  
 Project Name: VGEU 19-01  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

Sampling Date: 02/28/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 5 - 1' (H900821-09)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/04/2019 | ND              | 1.89 | 94.4       | 2.00          | 11.6 |           |
| Toluene*       | <0.050 | 0.050           | 03/04/2019 | ND              | 1.95 | 97.6       | 2.00          | 12.8 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/04/2019 | ND              | 1.85 | 92.5       | 2.00          | 13.7 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/04/2019 | ND              | 5.39 | 89.8       | 6.00          | 13.7 |           |
| Total BTX      | <0.300 | 0.300           | 03/04/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 11500  | 16.0            | 03/06/2019 | ND              | 400 | 100        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 03/04/2019 | ND              | 209 | 104        | 200           | 0.367 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/04/2019 | ND              | 216 | 108        | 200           | 1.12  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/04/2019 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 90.0 % 41-142

Surrogate: 1-Chlorooctadecane 90.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

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

Received: 03/01/2019  
 Reported: 03/06/2019  
 Project Name: VGEU 19-01  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

Sampling Date: 02/28/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 5 - 3' (H900821-10)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 03/04/2019 | ND              | 1.89 | 94.4       | 2.00          | 11.6 |           |  |
| Toluene*       | <0.050 | 0.050           | 03/04/2019 | ND              | 1.95 | 97.6       | 2.00          | 12.8 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 03/04/2019 | ND              | 1.85 | 92.5       | 2.00          | 13.7 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 03/04/2019 | ND              | 5.39 | 89.8       | 6.00          | 13.7 |           |  |
| Total BTX      | <0.300 | 0.300           | 03/04/2019 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 6660   | 16.0            | 03/06/2019 | ND              | 400 | 100        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 03/04/2019 | ND              | 209 | 104        | 200           | 0.367 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/04/2019 | ND              | 216 | 108        | 200           | 1.12  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/04/2019 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 94.1 % 41-142

Surrogate: 1-Chlorooctadecane 95.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

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

Received: 03/01/2019  
 Reported: 03/06/2019  
 Project Name: VGEU 19-01  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

Sampling Date: 02/28/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 6 - 1' (H900821-11)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/04/2019 | ND              | 1.89 | 94.4       | 2.00          | 11.6 |           |
| Toluene*       | <0.050 | 0.050           | 03/04/2019 | ND              | 1.95 | 97.6       | 2.00          | 12.8 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/04/2019 | ND              | 1.85 | 92.5       | 2.00          | 13.7 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/04/2019 | ND              | 5.39 | 89.8       | 6.00          | 13.7 |           |
| Total BTX      | <0.300 | 0.300           | 03/04/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 30000  | 16.0            | 03/06/2019 | ND              | 400 | 100        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 03/04/2019 | ND              | 209 | 104        | 200           | 0.367 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/04/2019 | ND              | 216 | 108        | 200           | 1.12  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/04/2019 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 87.2 % 41-142

Surrogate: 1-Chlorooctadecane 85.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

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

Received: 03/01/2019  
 Reported: 03/06/2019  
 Project Name: VGEU 19-01  
 Project Number: NONE GIVEN  
 Project Location: LEA CO NM

Sampling Date: 02/28/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 6 - 3' (H900821-12)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 03/04/2019 | ND              | 1.89 | 94.4       | 2.00          | 11.6 |           |
| Toluene*       | <0.050 | 0.050           | 03/04/2019 | ND              | 1.95 | 97.6       | 2.00          | 12.8 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 03/04/2019 | ND              | 1.85 | 92.5       | 2.00          | 13.7 |           |
| Total Xylenes* | <0.150 | 0.150           | 03/04/2019 | ND              | 5.39 | 89.8       | 6.00          | 13.7 |           |
| Total BTX      | <0.300 | 0.300           | 03/04/2019 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 8130   | 16.0            | 03/06/2019 | ND              | 400 | 100        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 03/04/2019 | ND              | 209 | 104        | 200           | 0.367 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 03/04/2019 | ND              | 216 | 108        | 200           | 1.12  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 03/04/2019 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 88.5 % 41-142

Surrogate: 1-Chlorooctadecane 89.8 % 37.6-147

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### Notes and Definitions

|       |                                                                                                                                                                                                         |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S-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.                                                                        |
| 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<br>Samples reported on an as received basis (wet) unless otherwise noted on report                                          |

---

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager

## CARDINAL LABORATORIES

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

Page \_\_\_\_ of \_\_\_\_

## BILL TO

## ANALYSIS REQUEST

Company Name:

Conoco Phillips

P.O. #:

Project Manager:

Justin Wright

Company:

CORC

Address:

State: NM Zip:

City:

Hobbs

Fax #:

Phone #:

575-631-0092

Project Owner:

CORC

Project #:

VCEC 19-01

City:

State:

Zip:

Project Name:

VCEC 19-01

Phone #:

Fax #:

Project Location:

Lea County, NM

Sampler Name:

Justin Wright

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | GROUNDWATER<br>WASTEWATER<br>SOIL<br>OIL<br>SLUDGE<br>OTHER: | ACID/BASE:<br>ICE / COOL<br>OTHER: | DATE | TIME | Chlorides | BTEX | TPH |
|----------|-------------|-------------------|--------------|--------------------------------------------------------------|------------------------------------|------|------|-----------|------|-----|
|          |             |                   |              |                                                              |                                    |      |      |           |      |     |
| H9D0821  | SP1-1'      | G                 | 1            | ✓                                                            | ✓                                  | 2-28 | 2:10 | ✓         | ✓    | ✓   |
|          | SP1-3'      | G                 | 1            | ✓                                                            | ✓                                  | 2-28 | 2:17 | ✓         | ✓    | ✓   |
|          | SP2-1'      | G                 | 1            | ✓                                                            | ✓                                  | 2-28 | 2:21 | ✓         | ✓    | ✓   |
|          | SP2-3'      | G                 | 1            | ✓                                                            | ✓                                  | 2-28 | 2:25 | ✓         | ✓    | ✓   |
|          | SP3-1'      | G                 | 1            | ✓                                                            | ✓                                  | 2-28 | 2:32 | ✓         | ✓    | ✓   |
|          | SP3-3'      | G                 | 1            | ✓                                                            | ✓                                  | 2-28 | 2:37 | ✓         | ✓    | ✓   |
|          | SP4-1'      | G                 | 1            | ✓                                                            | ✓                                  | 2-28 | 2:41 | ✓         | ✓    | ✓   |
|          | SP4-3'      | G                 | 1            | ✓                                                            | ✓                                  | 2-28 | 2:45 | ✓         | ✓    | ✓   |

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Sampler Relinquished

Relinquished By:

Date:

3-1-19

Received By:

Salli Jensen

Relinquished By:

Date:

11-20-20

Received By:

Salli Jensen

Temp.

Sample Condition

Cool

Intact

Yes

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

Delivered By: (Circle One)

1.80c / #97

Temp.

Sample Condition

Cool

Intact

Yes

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

Sampler - UPS - Bus - Other:

1.80c / #97

Temp.

Sample Condition

Cool

Intact

Yes

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



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(575) 393-2326 Fax (575) 393-2476

Page \_\_\_\_ of \_\_\_\_

## BILL TO

## ANALYSIS REQUEST

Company Name: Cardinal Phillips

P.O. #:

Project Manager: Justin WrightCompany: CORCAddress: \_\_\_\_\_ State: NM Zip: \_\_\_\_\_

Attn: \_\_\_\_\_

City: Hobbs Fax #: \_\_\_\_\_

Address: \_\_\_\_\_

Phone #: 575-631-9092

City: \_\_\_\_\_

Project Owner: CORC

Project #: \_\_\_\_\_

State: \_\_\_\_\_

Project Name: VEU 18-01

Phone #: \_\_\_\_\_

Project Location: Lea County, NM

Fax #: \_\_\_\_\_

Sampler Name: Justin Wright

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE TIME

Chlorides

BTEX

TPH

H00624

SP-5-11

SP-5-3

SP-6-1

SP-6-3

G

G

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SP-5-3

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SP-5-11

SP-5-3

SP-6





## ANALYTICAL REPORT

October 01, 2019

**ConocoPhillips - Tetra Tech**

Sample Delivery Group: L1142081  
Samples Received: 09/21/2019  
Project Number: 212C-MS-01840  
Description: COP VGEU 19-01

Report To: Chrisian Llull  
901 West Wall  
Suite 100  
Midland, TX 79701

Entire Report Reviewed By:

Chris McCord  
Project Manager

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



|                                                     |           |
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|                 |
|-----------------|
| <sup>1</sup> Cp |
| <sup>2</sup> Tc |
| <sup>3</sup> Ss |
| <sup>4</sup> Cn |
| <sup>5</sup> Sr |
| <sup>6</sup> Qc |
| <sup>7</sup> Gl |
| <sup>8</sup> Al |
| <sup>9</sup> Sc |

Sc: Sample Chain of Custody

56

- <sup>1</sup>Cp
- <sup>2</sup>Tc
- <sup>3</sup>Ss
- <sup>4</sup>Cn
- <sup>5</sup>Sr
- <sup>6</sup>Qc
- <sup>7</sup>Gl
- <sup>8</sup>Al
- <sup>9</sup>Sc

## BH-1 (0-1') L1142081-01 Solid

|                                                     |           |          |                       | Collected by       | Collected date/time | Received date/time |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                                     |           |          |                       |                    | 09/16/19 10:00      | 09/21/19 08:30     |
| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                  | WG1353379 | 1        | 09/27/19 13:48        | 09/27/19 14:01     | KDW                 | Mt. Juliet, TN     |
| Wet Chemistry by Method 300.0                       | WG1350262 | 1        | 09/24/19 08:30        | 09/24/19 10:06     | ELN                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1353634 | 1        | 09/25/19 16:52        | 09/27/19 18:03     | JHH                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1352512 | 1        | 09/25/19 16:52        | 09/26/19 10:48     | ACG                 | Mt. Juliet, TN     |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1353768 | 1        | 09/28/19 07:57        | 09/29/19 00:46     | KME                 | Mt. Juliet, TN     |

1 Cp

2 Tc

3 Ss

4 Cn

## BH-1 (2-3') L1142081-02 Solid

|                                                     |           |          |                       | Collected by       | Collected date/time | Received date/time |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                                     |           |          |                       |                    | 09/16/19 10:05      | 09/21/19 08:30     |
| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                  | WG1353379 | 1        | 09/27/19 13:48        | 09/27/19 14:01     | KDW                 | Mt. Juliet, TN     |
| Wet Chemistry by Method 300.0                       | WG1350262 | 1        | 09/24/19 08:30        | 09/24/19 10:24     | ELN                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1353634 | 1        | 09/25/19 16:52        | 09/27/19 18:24     | JHH                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1352512 | 1        | 09/25/19 16:52        | 09/26/19 11:09     | ACG                 | Mt. Juliet, TN     |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1353768 | 1        | 09/28/19 07:57        | 09/29/19 01:24     | KME                 | Mt. Juliet, TN     |

5 Sr

6 Qc

7 Gl

8 Al

## BH-1 (4-5') L1142081-03 Solid

|                                                     |           |          |                       | Collected by       | Collected date/time | Received date/time |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                                     |           |          |                       |                    | 09/16/19 10:10      | 09/21/19 08:30     |
| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                  | WG1353379 | 1        | 09/27/19 13:48        | 09/27/19 14:01     | KDW                 | Mt. Juliet, TN     |
| Wet Chemistry by Method 300.0                       | WG1350262 | 1        | 09/24/19 08:30        | 09/24/19 10:34     | ELN                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1353634 | 1        | 09/25/19 16:52        | 09/27/19 18:44     | JHH                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1352512 | 1        | 09/25/19 16:52        | 09/26/19 12:53     | ACG                 | Mt. Juliet, TN     |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1353768 | 1        | 09/28/19 07:57        | 09/29/19 01:37     | KME                 | Mt. Juliet, TN     |

9 Sc

## BH-2 (0-1') L1142081-04 Solid

|                                                     |           |          |                       | Collected by       | Collected date/time | Received date/time |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                                     |           |          |                       |                    | 09/16/19 10:30      | 09/21/19 08:30     |
| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                  | WG1353379 | 1        | 09/27/19 13:48        | 09/27/19 14:01     | KDW                 | Mt. Juliet, TN     |
| Wet Chemistry by Method 300.0                       | WG1350262 | 5        | 09/24/19 08:30        | 09/24/19 10:43     | ELN                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1353634 | 1        | 09/25/19 16:52        | 09/27/19 19:05     | JHH                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1352512 | 1        | 09/25/19 16:52        | 09/26/19 13:14     | ACG                 | Mt. Juliet, TN     |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1353768 | 1        | 09/28/19 11:55        | 09/29/19 01:49     | KME                 | Mt. Juliet, TN     |

## BH-2 (2-3') L1142081-05 Solid

|                                                     |           |          |                       | Collected by       | Collected date/time | Received date/time |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                                     |           |          |                       |                    | 09/16/19 10:35      | 09/21/19 08:30     |
| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                  | WG1353379 | 1        | 09/27/19 13:48        | 09/27/19 14:01     | KDW                 | Mt. Juliet, TN     |
| Wet Chemistry by Method 300.0                       | WG1350262 | 1        | 09/24/19 08:30        | 09/24/19 10:53     | ELN                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1353634 | 1.01     | 09/25/19 16:52        | 09/27/19 19:25     | JHH                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1352512 | 1        | 09/25/19 16:52        | 09/26/19 13:35     | ACG                 | Mt. Juliet, TN     |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1353768 | 1        | 09/28/19 11:55        | 09/29/19 02:02     | KME                 | Mt. Juliet, TN     |

## BH-2 (4-5') L1142081-06 Solid

|                                                     |           |          |                       | Collected by       | Collected date/time | Received date/time |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                                     |           |          |                       |                    | 09/16/19 10:40      | 09/21/19 08:30     |
| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                  | WG1353379 | 1        | 09/27/19 13:48        | 09/27/19 14:01     | KDW                 | Mt. Juliet, TN     |
| Wet Chemistry by Method 300.0                       | WG1350262 | 1        | 09/24/19 08:30        | 09/24/19 11:02     | ELN                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1353634 | 1        | 09/25/19 16:52        | 09/27/19 19:46     | JHH                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1352512 | 1        | 09/25/19 16:52        | 09/26/19 13:55     | ACG                 | Mt. Juliet, TN     |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1353768 | 1        | 09/28/19 07:57        | 09/29/19 02:14     | KME                 | Mt. Juliet, TN     |

1 Cp

2 Tc

3 Ss

4 Cn

## BH-3 (0-1') L1142081-07 Solid

|                                                     |           |          |                       | Collected by       | Collected date/time | Received date/time |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                                     |           |          |                       |                    | 09/16/19 10:50      | 09/21/19 08:30     |
| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                  | WG1353381 | 1        | 09/27/19 13:35        | 09/27/19 13:46     | KDW                 | Mt. Juliet, TN     |
| Wet Chemistry by Method 300.0                       | WG1350262 | 1        | 09/24/19 08:30        | 09/24/19 11:12     | ELN                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1353634 | 1        | 09/25/19 16:52        | 09/27/19 20:06     | JHH                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1352512 | 1        | 09/25/19 16:52        | 09/26/19 14:16     | ACG                 | Mt. Juliet, TN     |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1353768 | 1        | 09/28/19 07:57        | 09/29/19 02:27     | KME                 | Mt. Juliet, TN     |

5 Sr

6 Qc

7 Gl

8 Al

## BH-3 (2-3') L1142081-08 Solid

|                                                     |           |          |                       | Collected by       | Collected date/time | Received date/time |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                                     |           |          |                       |                    | 09/16/19 10:55      | 09/21/19 08:30     |
| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                  | WG1353381 | 1        | 09/27/19 13:35        | 09/27/19 13:46     | KDW                 | Mt. Juliet, TN     |
| Wet Chemistry by Method 300.0                       | WG1350262 | 1        | 09/24/19 08:30        | 09/24/19 11:41     | ELN                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1353634 | 1        | 09/25/19 16:52        | 09/27/19 20:27     | JHH                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1352512 | 1        | 09/25/19 16:52        | 09/26/19 14:37     | ACG                 | Mt. Juliet, TN     |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1353768 | 1        | 09/28/19 07:57        | 09/29/19 02:39     | KME                 | Mt. Juliet, TN     |

9 Sc

## BH-3 (4-5') L1142081-09 Solid

|                                                     |           |          |                       | Collected by       | Collected date/time | Received date/time |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                                     |           |          |                       |                    | 09/16/19 11:00      | 09/21/19 08:30     |
| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                  | WG1353381 | 1        | 09/27/19 13:35        | 09/27/19 13:46     | KDW                 | Mt. Juliet, TN     |
| Wet Chemistry by Method 300.0                       | WG1350262 | 1        | 09/24/19 08:30        | 09/24/19 11:50     | ELN                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1354679 | 1        | 09/25/19 16:52        | 09/30/19 13:14     | BMB                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1352512 | 1        | 09/25/19 16:52        | 09/26/19 14:57     | ACG                 | Mt. Juliet, TN     |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1353768 | 1        | 09/28/19 07:57        | 09/29/19 02:52     | KME                 | Mt. Juliet, TN     |

## BH-4 (0-1') L1142081-10 Solid

|                                                     |           |          |                       | Collected by       | Collected date/time | Received date/time |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                                     |           |          |                       |                    | 09/16/19 11:20      | 09/21/19 08:30     |
| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                  | WG1353381 | 1        | 09/27/19 13:35        | 09/27/19 13:46     | KDW                 | Mt. Juliet, TN     |
| Wet Chemistry by Method 300.0                       | WG1350262 | 10       | 09/24/19 08:30        | 09/24/19 12:00     | ELN                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1353634 | 1        | 09/25/19 16:52        | 09/27/19 21:36     | JHH                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1352512 | 1        | 09/25/19 16:52        | 09/26/19 15:18     | ACG                 | Mt. Juliet, TN     |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1353768 | 1        | 09/28/19 07:57        | 09/29/19 03:05     | KME                 | Mt. Juliet, TN     |

## BH-4 (2-3') L1142081-11 Solid

Collected by  
Collected date/time  
Received date/time

09/16/19 11:25 09/21/19 08:30

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1353381 | 1        | 09/27/19 13:35        | 09/27/19 13:46     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1350262 | 10       | 09/24/19 08:30        | 09/24/19 12:09     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1353634 | 1        | 09/25/19 16:52        | 09/27/19 21:56     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1352512 | 1        | 09/25/19 16:52        | 09/26/19 15:39     | ACG     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1353768 | 1        | 09/28/19 07:57        | 09/29/19 03:17     | KME     | Mt. Juliet, TN |

1 Cp

2 Tc

3 Ss

4 Cn

## BH-4 (4-5') L1142081-12 Solid

Collected by  
Collected date/time  
Received date/time

09/16/19 11:30 09/21/19 08:30

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1353381 | 1        | 09/27/19 13:35        | 09/27/19 13:46     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1350262 | 1        | 09/24/19 08:30        | 09/24/19 12:19     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1354679 | 1        | 09/25/19 16:52        | 09/30/19 13:34     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1352512 | 1        | 09/25/19 16:52        | 09/26/19 16:00     | ACG     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1353768 | 1        | 09/28/19 07:57        | 09/29/19 03:30     | KME     | Mt. Juliet, TN |

5 Sr

6 Qc

7 Gl

8 Al

## BH-5 (0-1') L1142081-13 Solid

Collected by  
Collected date/time  
Received date/time

09/16/19 11:45 09/21/19 08:30

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1353381 | 1        | 09/27/19 13:35        | 09/27/19 13:46     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1350262 | 10       | 09/24/19 08:30        | 09/24/19 12:28     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1354679 | 1        | 09/25/19 16:52        | 09/30/19 13:55     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1352512 | 1        | 09/25/19 16:52        | 09/26/19 16:20     | ACG     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1353768 | 1        | 09/28/19 07:57        | 09/29/19 03:42     | KME     | Mt. Juliet, TN |

9 Sc

## BH-5 (2-3') L1142081-14 Solid

Collected by  
Collected date/time  
Received date/time

09/16/19 11:50 09/21/19 08:30

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1353381 | 1        | 09/27/19 13:35        | 09/27/19 13:46     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1350262 | 5        | 09/24/19 08:30        | 09/24/19 12:38     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1354679 | 1        | 09/25/19 16:52        | 09/30/19 14:50     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1352512 | 1        | 09/25/19 16:52        | 09/26/19 16:41     | ACG     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1352422 | 1        | 09/26/19 06:43        | 09/27/19 01:53     | CLG     | Mt. Juliet, TN |

## BH-5 (4-5) L1142081-15 Solid

Collected by  
Collected date/time  
Received date/time

09/16/19 11:55 09/21/19 08:30

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1353381 | 1        | 09/27/19 13:35        | 09/27/19 13:46     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1350262 | 5        | 09/24/19 08:30        | 09/24/19 13:35     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1353634 | 1        | 09/25/19 16:52        | 09/28/19 03:12     | JHH     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1352512 | 1        | 09/25/19 16:52        | 09/26/19 17:01     | ACG     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1352422 | 1        | 09/26/19 06:43        | 09/26/19 21:54     | CLG     | Mt. Juliet, TN |



## BH-6 (0-1') L1142081-16 Solid

|                                                     |           |          |                       | Collected by       | Collected date/time | Received date/time |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                                     |           |          |                       |                    | 09/16/19 13:30      | 09/21/19 08:30     |
| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                  | WG1353381 | 1        | 09/27/19 13:35        | 09/27/19 13:46     | KDW                 | Mt. Juliet, TN     |
| Wet Chemistry by Method 300.0                       | WG1350262 | 20       | 09/24/19 08:30        | 09/24/19 13:44     | ELN                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1353634 | 1        | 09/25/19 16:52        | 09/28/19 03:32     | JHH                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1352512 | 1        | 09/25/19 16:52        | 09/26/19 17:21     | ACG                 | Mt. Juliet, TN     |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1352422 | 1        | 09/26/19 06:43        | 09/27/19 01:16     | CLG                 | Mt. Juliet, TN     |

1 Cp

2 Tc

3 Ss

4 Cn

## BH-6 (2-3') L1142081-17 Solid

|                                                     |           |          |                       | Collected by       | Collected date/time | Received date/time |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                                     |           |          |                       |                    | 09/16/19 13:40      | 09/21/19 08:30     |
| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                  | WG1353382 | 1        | 09/27/19 13:17        | 09/27/19 13:32     | KDW                 | Mt. Juliet, TN     |
| Wet Chemistry by Method 300.0                       | WG1350262 | 20       | 09/24/19 08:30        | 09/24/19 13:54     | ELN                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1353634 | 1        | 09/25/19 16:52        | 09/28/19 03:53     | JHH                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1353482 | 1        | 09/25/19 16:52        | 09/28/19 11:35     | ACG                 | Mt. Juliet, TN     |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1352422 | 1        | 09/26/19 06:43        | 09/27/19 01:28     | CLG                 | Mt. Juliet, TN     |

5 Sr

6 Qc

7 Gl

8 Al

## BH-6 (4-5') L1142081-18 Solid

|                                                     |           |          |                       | Collected by       | Collected date/time | Received date/time |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                                     |           |          |                       |                    | 09/16/19 13:50      | 09/21/19 08:30     |
| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                  | WG1353382 | 1        | 09/27/19 13:17        | 09/27/19 13:32     | KDW                 | Mt. Juliet, TN     |
| Wet Chemistry by Method 300.0                       | WG1350262 | 10       | 09/24/19 08:30        | 09/24/19 14:03     | ELN                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1353634 | 1        | 09/25/19 16:52        | 09/28/19 08:45     | JHH                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1352625 | 1        | 09/25/19 16:52        | 09/26/19 21:04     | ACG                 | Mt. Juliet, TN     |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1352422 | 1        | 09/26/19 06:43        | 09/26/19 22:07     | CLG                 | Mt. Juliet, TN     |

9 Sc

## BH-7 (0-1') L1142081-19 Solid

|                                                     |           |          |                       | Collected by       | Collected date/time | Received date/time |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                                     |           |          |                       |                    | 09/16/19 14:30      | 09/21/19 08:30     |
| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                  | WG1353382 | 1        | 09/27/19 13:17        | 09/27/19 13:32     | KDW                 | Mt. Juliet, TN     |
| Wet Chemistry by Method 300.0                       | WG1350262 | 10       | 09/24/19 08:30        | 09/24/19 14:13     | ELN                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1353634 | 1        | 09/25/19 16:52        | 09/28/19 09:06     | JHH                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1352625 | 1        | 09/25/19 16:52        | 09/26/19 21:25     | ACG                 | Mt. Juliet, TN     |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1352422 | 1        | 09/26/19 06:43        | 09/27/19 02:06     | CLG                 | Mt. Juliet, TN     |

## BH-7 (2-3') L1142081-20 Solid

|                                                     |           |          |                       | Collected by       | Collected date/time | Received date/time |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                                     |           |          |                       |                    | 09/16/19 14:35      | 09/21/19 08:30     |
| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                  | WG1353382 | 1        | 09/27/19 13:17        | 09/27/19 13:32     | KDW                 | Mt. Juliet, TN     |
| Wet Chemistry by Method 300.0                       | WG1350262 | 5        | 09/24/19 08:30        | 09/24/19 14:32     | ELN                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1353634 | 1        | 09/25/19 16:52        | 09/28/19 09:26     | JHH                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1352625 | 1        | 09/25/19 16:52        | 09/26/19 21:45     | ACG                 | Mt. Juliet, TN     |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1352422 | 1        | 09/26/19 06:43        | 09/27/19 02:19     | CLG                 | Mt. Juliet, TN     |

## BH-7 (4-5') L1142081-21 Solid

|                                                     |           |          |                       | Collected by       | Collected date/time | Received date/time |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                                     |           |          |                       |                    | 09/16/19 14:40      | 09/21/19 08:30     |
| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                  | WG1353382 | 1        | 09/27/19 13:17        | 09/27/19 13:32     | KDW                 | Mt. Juliet, TN     |
| Wet Chemistry by Method 300.0                       | WG1350445 | 10       | 09/23/19 17:40        | 09/24/19 00:14     | LDC                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1354028 | 1        | 09/25/19 16:52        | 09/27/19 21:55     | ADM                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1352625 | 1        | 09/25/19 16:52        | 09/26/19 22:05     | ACG                 | Mt. Juliet, TN     |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1352422 | 1        | 09/26/19 06:43        | 09/26/19 23:47     | CLG                 | Mt. Juliet, TN     |

1 Cp

2 Tc

3 Ss

4 Cn

## BH-8 (0-1') L1142081-22 Solid

|                                                     |           |          |                       | Collected by       | Collected date/time | Received date/time |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                                     |           |          |                       |                    | 09/16/19 15:00      | 09/21/19 08:30     |
| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                  | WG1353382 | 1        | 09/27/19 13:17        | 09/27/19 13:32     | KDW                 | Mt. Juliet, TN     |
| Wet Chemistry by Method 300.0                       | WG1350445 | 1        | 09/23/19 17:40        | 09/24/19 00:23     | LDC                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1354028 | 1        | 09/25/19 16:52        | 09/27/19 22:16     | ADM                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1352625 | 1        | 09/25/19 16:52        | 09/26/19 22:26     | ACG                 | Mt. Juliet, TN     |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1353768 | 1        | 09/28/19 11:55        | 09/29/19 03:55     | KME                 | Mt. Juliet, TN     |

5 Sr

6 Qc

7 Gl

8 Al

## BH-8 (2-3') L1142081-23 Solid

|                                                     |           |          |                       | Collected by       | Collected date/time | Received date/time |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                                     |           |          |                       |                    | 09/16/19 15:10      | 09/21/19 08:30     |
| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                  | WG1353382 | 1        | 09/27/19 13:17        | 09/27/19 13:32     | KDW                 | Mt. Juliet, TN     |
| Wet Chemistry by Method 300.0                       | WG1350445 | 1        | 09/23/19 17:40        | 09/24/19 00:33     | LDC                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1354028 | 1        | 09/25/19 16:52        | 09/27/19 22:36     | ADM                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1352625 | 1        | 09/25/19 16:52        | 09/26/19 22:46     | ACG                 | Mt. Juliet, TN     |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1352422 | 1        | 09/26/19 06:43        | 09/27/19 00:38     | CLG                 | Mt. Juliet, TN     |

9 Sc

## BH-8 (4-5') L1142081-24 Solid

|                                                     |           |          |                       | Collected by       | Collected date/time | Received date/time |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                                     |           |          |                       |                    | 09/16/19 15:20      | 09/21/19 08:30     |
| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                  | WG1353382 | 1        | 09/27/19 13:17        | 09/27/19 13:32     | KDW                 | Mt. Juliet, TN     |
| Wet Chemistry by Method 300.0                       | WG1350714 | 1        | 09/24/19 17:30        | 09/24/19 19:52     | ST                  | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1354028 | 1        | 09/25/19 16:52        | 09/27/19 22:57     | ADM                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1352625 | 1        | 09/25/19 16:52        | 09/26/19 23:07     | ACG                 | Mt. Juliet, TN     |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1352422 | 1        | 09/26/19 06:43        | 09/26/19 23:35     | CLG                 | Mt. Juliet, TN     |

## BH-9 (0-1') L1142081-25 Solid

|                                                     |           |          |                       | Collected by       | Collected date/time | Received date/time |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------------------|--------------------|
|                                                     |           |          |                       |                    | 09/16/19 15:45      | 09/21/19 08:30     |
| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst             | Location           |
| Total Solids by Method 2540 G-2011                  | WG1353382 | 1        | 09/27/19 13:17        | 09/27/19 13:32     | KDW                 | Mt. Juliet, TN     |
| Wet Chemistry by Method 300.0                       | WG1350714 | 1        | 09/24/19 17:30        | 09/24/19 20:10     | ST                  | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1354028 | 1.01     | 09/25/19 16:52        | 09/27/19 23:17     | ADM                 | Mt. Juliet, TN     |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1352625 | 1        | 09/25/19 16:52        | 09/26/19 23:27     | ACG                 | Mt. Juliet, TN     |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1352422 | 1        | 09/26/19 06:43        | 09/27/19 01:03     | CLG                 | Mt. Juliet, TN     |

## BH-9 (2-3') L1142081-26 Solid

Collected by

Collected date/time

Received date/time

09/16/19 15:50

09/21/19 08:30

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1353382 | 1        | 09/27/19 13:17        | 09/27/19 13:32     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1350714 | 1        | 09/24/19 17:30        | 09/24/19 20:20     | ST      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1354028 | 1        | 09/25/19 16:52        | 09/27/19 23:38     | ADM     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1352625 | 1        | 09/25/19 16:52        | 09/26/19 23:47     | ACG     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1352422 | 1        | 09/26/19 06:43        | 09/27/19 01:41     | CLG     | Mt. Juliet, TN |

1 Cp

2 Tc

3 Ss

4 Cn

## BH-9 (4-5') L1142081-27 Solid

Collected by

Collected date/time

Received date/time

09/16/19 15:55

09/21/19 08:30

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1353383 | 1        | 09/30/19 07:49        | 09/30/19 07:58     | KBC     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1350714 | 1        | 09/24/19 17:30        | 09/24/19 20:29     | ST      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1353697 | 1.01     | 09/25/19 16:52        | 09/28/19 08:11     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1352625 | 1        | 09/25/19 16:52        | 09/27/19 00:08     | ACG     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1352422 | 1        | 09/26/19 06:43        | 09/26/19 22:57     | CLG     | Mt. Juliet, TN |

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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



Chris McCord  
Project Manager

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Collected date/time: 09/16/19 10:00

L1142081

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 95.3   |           | 1        | 09/27/2019 14:01 | <a href="#">WG1353379</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| Chloride | 110          |           | 0.834     | 10.0       | 10.5      | 1        | 09/24/2019 10:06 | <a href="#">WG1350262</a> |

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

| Analyte                         | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                                 | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction       | U            |           | 0.0228    | 0.100      | 0.105     | 1        | 09/27/2019 18:03 | <a href="#">WG1353634</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 97.3         |           |           |            | 77.0-120  |          | 09/27/2019 18:03 | <a href="#">WG1353634</a> |

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

| Analyte                   | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                           | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| Benzene                   | U            |           | 0.000420  | 0.00100    | 0.00105   | 1        | 09/26/2019 10:48 | <a href="#">WG1352512</a> |
| Toluene                   | U            |           | 0.00131   | 0.00500    | 0.00524   | 1        | 09/26/2019 10:48 | <a href="#">WG1352512</a> |
| Ethylbenzene              | U            |           | 0.000556  | 0.00250    | 0.00262   | 1        | 09/26/2019 10:48 | <a href="#">WG1352512</a> |
| Total Xylenes             | U            |           | 0.00501   | 0.00650    | 0.00682   | 1        | 09/26/2019 10:48 | <a href="#">WG1352512</a> |
| (S) Toluene-d8            | 114          |           |           |            | 75.0-131  |          | 09/26/2019 10:48 | <a href="#">WG1352512</a> |
| (S) 4-Bromofluorobenzene  | 107          |           |           |            | 67.0-138  |          | 09/26/2019 10:48 | <a href="#">WG1352512</a> |
| (S) 1,2-Dichloroethane-d4 | 98.2         |           |           |            | 70.0-130  |          | 09/26/2019 10:48 | <a href="#">WG1352512</a> |

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

| Analyte              | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|----------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                      | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range | 4.75         |           | 1.69      | 4.00       | 4.20      | 1        | 09/29/2019 00:46 | <a href="#">WG1353768</a> |
| C28-C40 Oil Range    | 11.3         |           | 0.287     | 4.00       | 4.20      | 1        | 09/29/2019 00:46 | <a href="#">WG1353768</a> |
| (S) o-Terphenyl      | 55.9         |           |           |            | 18.0-148  |          | 09/29/2019 00:46 | <a href="#">WG1353768</a> |

Collected date/time: 09/16/19 10:05

L1142081

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 93.3   |           | 1        | 09/27/2019 14:01     | <a href="#">WG1353379</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Chloride | 114          |           | 0.853     | 10.0       | 10.7      | 1        | 09/24/2019 10:24     | <a href="#">WG1350262</a> |

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

| Analyte                         | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            |           | 0.0233    | 0.100      | 0.107     | 1        | 09/27/2019 18:24     | <a href="#">WG1353634</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 94.7         |           |           |            | 77.0-120  |          | 09/27/2019 18:24     | <a href="#">WG1353634</a> |

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

| Analyte                   | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000429  | 0.00100    | 0.00107   | 1        | 09/26/2019 11:09     | <a href="#">WG1352512</a> |
| Toluene                   | U            |           | 0.00134   | 0.00500    | 0.00536   | 1        | 09/26/2019 11:09     | <a href="#">WG1352512</a> |
| Ethylbenzene              | U            |           | 0.000568  | 0.00250    | 0.00268   | 1        | 09/26/2019 11:09     | <a href="#">WG1352512</a> |
| Total Xylenes             | U            |           | 0.00512   | 0.00650    | 0.00697   | 1        | 09/26/2019 11:09     | <a href="#">WG1352512</a> |
| (S) Toluene-d8            | 115          |           |           |            | 75.0-131  |          | 09/26/2019 11:09     | <a href="#">WG1352512</a> |
| (S) 4-Bromofluorobenzene  | 106          |           |           |            | 67.0-138  |          | 09/26/2019 11:09     | <a href="#">WG1352512</a> |
| (S) 1,2-Dichloroethane-d4 | 99.1         |           |           |            | 70.0-130  |          | 09/26/2019 11:09     | <a href="#">WG1352512</a> |

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

| Analyte              | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 5.84         |           | 1.73      | 4.00       | 4.29      | 1        | 09/29/2019 01:24     | <a href="#">WG1353768</a> |
| C28-C40 Oil Range    | 14.6         |           | 0.294     | 4.00       | 4.29      | 1        | 09/29/2019 01:24     | <a href="#">WG1353768</a> |
| (S) o-Terphenyl      | 71.3         |           |           |            | 18.0-148  |          | 09/29/2019 01:24     | <a href="#">WG1353768</a> |



Collected date/time: 09/16/19 10:10

L1142081

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 93.7   |           | 1        | 09/27/2019 14:01     | <a href="#">WG1353379</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Chloride | 359          |           | 0.849     | 10.0       | 10.7      | 1        | 09/24/2019 10:34     | <a href="#">WG1350262</a> |

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

| Analyte                         | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            |           | 0.0232    | 0.100      | 0.107     | 1        | 09/27/2019 18:44     | <a href="#">WG1353634</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 95.4         |           |           |            | 77.0-120  |          | 09/27/2019 18:44     | <a href="#">WG1353634</a> |

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

| Analyte                   | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000427  | 0.00100    | 0.00107   | 1        | 09/26/2019 12:53     | <a href="#">WG1352512</a> |
| Toluene                   | U            |           | 0.00133   | 0.00500    | 0.00534   | 1        | 09/26/2019 12:53     | <a href="#">WG1352512</a> |
| Ethylbenzene              | U            |           | 0.000566  | 0.00250    | 0.00267   | 1        | 09/26/2019 12:53     | <a href="#">WG1352512</a> |
| Total Xylenes             | U            |           | 0.00510   | 0.00650    | 0.00694   | 1        | 09/26/2019 12:53     | <a href="#">WG1352512</a> |
| (S) Toluene-d8            | 112          |           |           |            | 75.0-131  |          | 09/26/2019 12:53     | <a href="#">WG1352512</a> |
| (S) 4-Bromofluorobenzene  | 108          |           |           |            | 67.0-138  |          | 09/26/2019 12:53     | <a href="#">WG1352512</a> |
| (S) 1,2-Dichloroethane-d4 | 98.7         |           |           |            | 70.0-130  |          | 09/26/2019 12:53     | <a href="#">WG1352512</a> |

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

| Analyte              | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 3.85         | J         | 1.72      | 4.00       | 4.27      | 1        | 09/29/2019 01:37     | <a href="#">WG1353768</a> |
| C28-C40 Oil Range    | 7.35         |           | 0.292     | 4.00       | 4.27      | 1        | 09/29/2019 01:37     | <a href="#">WG1353768</a> |
| (S) o-Terphenyl      | 69.1         |           |           |            | 18.0-148  |          | 09/29/2019 01:37     | <a href="#">WG1353768</a> |

Collected date/time: 09/16/19 10:30

L1142081

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 91.8   |           | 1        | 09/27/2019 14:01 | <a href="#">WG1353379</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| Chloride | 992          |           | 4.33      | 10.0       | 54.5      | 5        | 09/24/2019 10:43 | <a href="#">WG1350262</a> |

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

| Analyte                         | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                                 | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction       | U            |           | 0.0236    | 0.100      | 0.109     | 1        | 09/27/2019 19:05 | <a href="#">WG1353634</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 94.1         |           |           |            | 77.0-120  |          | 09/27/2019 19:05 | <a href="#">WG1353634</a> |

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

| Analyte                   | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                           | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| Benzene                   | U            |           | 0.000436  | 0.00100    | 0.00109   | 1        | 09/26/2019 13:14 | <a href="#">WG1352512</a> |
| Toluene                   | U            |           | 0.00136   | 0.00500    | 0.00545   | 1        | 09/26/2019 13:14 | <a href="#">WG1352512</a> |
| Ethylbenzene              | U            |           | 0.000578  | 0.00250    | 0.00272   | 1        | 09/26/2019 13:14 | <a href="#">WG1352512</a> |
| Total Xylenes             | U            |           | 0.00521   | 0.00650    | 0.00708   | 1        | 09/26/2019 13:14 | <a href="#">WG1352512</a> |
| (S) Toluene-d8            | 111          |           |           |            | 75.0-131  |          | 09/26/2019 13:14 | <a href="#">WG1352512</a> |
| (S) 4-Bromofluorobenzene  | 109          |           |           |            | 67.0-138  |          | 09/26/2019 13:14 | <a href="#">WG1352512</a> |
| (S) 1,2-Dichloroethane-d4 | 102          |           |           |            | 70.0-130  |          | 09/26/2019 13:14 | <a href="#">WG1352512</a> |

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

| Analyte              | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|----------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                      | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range | 14.1         |           | 1.75      | 4.00       | 4.36      | 1        | 09/29/2019 01:49 | <a href="#">WG1353768</a> |
| C28-C40 Oil Range    | 19.2         |           | 0.299     | 4.00       | 4.36      | 1        | 09/29/2019 01:49 | <a href="#">WG1353768</a> |
| (S) o-Terphenyl      | 63.8         |           |           |            | 18.0-148  |          | 09/29/2019 01:49 | <a href="#">WG1353768</a> |

Collected date/time: 09/16/19 10:35

L1142081

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 87.1   |           | 1        | 09/27/2019 14:01     | <a href="#">WG1353379</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Chloride | 326          |           | 0.913     | 10.0       | 11.5      | 1        | 09/24/2019 10:53     | <a href="#">WG1350262</a> |

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

| Analyte                         | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            |           | 0.0252    | 0.100      | 0.116     | 1.01     | 09/27/2019 19:25     | <a href="#">WG1353634</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 94.0         |           |           |            | 77.0-120  |          | 09/27/2019 19:25     | <a href="#">WG1353634</a> |

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

| Analyte                   | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000459  | 0.00100    | 0.00115   | 1        | 09/26/2019 13:35     | <a href="#">WG1352512</a> |
| Toluene                   | U            |           | 0.00144   | 0.00500    | 0.00574   | 1        | 09/26/2019 13:35     | <a href="#">WG1352512</a> |
| Ethylbenzene              | U            |           | 0.000609  | 0.00250    | 0.00287   | 1        | 09/26/2019 13:35     | <a href="#">WG1352512</a> |
| Total Xylenes             | U            |           | 0.00549   | 0.00650    | 0.00747   | 1        | 09/26/2019 13:35     | <a href="#">WG1352512</a> |
| (S) Toluene-d8            | 115          |           |           |            | 75.0-131  |          | 09/26/2019 13:35     | <a href="#">WG1352512</a> |
| (S) 4-Bromofluorobenzene  | 106          |           |           |            | 67.0-138  |          | 09/26/2019 13:35     | <a href="#">WG1352512</a> |
| (S) 1,2-Dichloroethane-d4 | 98.4         |           |           |            | 70.0-130  |          | 09/26/2019 13:35     | <a href="#">WG1352512</a> |

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

| Analyte              | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 3.31         | J         | 1.85      | 4.00       | 4.59      | 1        | 09/29/2019 02:02     | <a href="#">WG1353768</a> |
| C28-C40 Oil Range    | 9.44         |           | 0.315     | 4.00       | 4.59      | 1        | 09/29/2019 02:02     | <a href="#">WG1353768</a> |
| (S) o-Terphenyl      | 67.0         |           |           |            | 18.0-148  |          | 09/29/2019 02:02     | <a href="#">WG1353768</a> |

Collected date/time: 09/16/19 10:40

L1142081

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 89.9   |           | 1        | 09/27/2019 14:01     | <a href="#">WG1353379</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Chloride | 74.8         |           | 0.885     | 10.0       | 11.1      | 1        | 09/24/2019 11:02     | <a href="#">WG1350262</a> |

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

| Analyte                         | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            |           | 0.0241    | 0.100      | 0.111     | 1        | 09/27/2019 19:46     | <a href="#">WG1353634</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 93.1         |           |           |            | 77.0-120  |          | 09/27/2019 19:46     | <a href="#">WG1353634</a> |

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

| Analyte                   | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000445  | 0.00100    | 0.00111   | 1        | 09/26/2019 13:55     | <a href="#">WG1352512</a> |
| Toluene                   | U            |           | 0.00139   | 0.00500    | 0.00556   | 1        | 09/26/2019 13:55     | <a href="#">WG1352512</a> |
| Ethylbenzene              | U            |           | 0.000590  | 0.00250    | 0.00278   | 1        | 09/26/2019 13:55     | <a href="#">WG1352512</a> |
| Total Xylenes             | U            |           | 0.00532   | 0.00650    | 0.00723   | 1        | 09/26/2019 13:55     | <a href="#">WG1352512</a> |
| (S) Toluene-d8            | 113          |           |           |            | 75.0-131  |          | 09/26/2019 13:55     | <a href="#">WG1352512</a> |
| (S) 4-Bromofluorobenzene  | 109          |           |           |            | 67.0-138  |          | 09/26/2019 13:55     | <a href="#">WG1352512</a> |
| (S) 1,2-Dichloroethane-d4 | 98.7         |           |           |            | 70.0-130  |          | 09/26/2019 13:55     | <a href="#">WG1352512</a> |

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

| Analyte              | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 5.56         |           | 1.79      | 4.00       | 4.45      | 1        | 09/29/2019 02:14     | <a href="#">WG1353768</a> |
| C28-C40 Oil Range    | 8.99         |           | 0.305     | 4.00       | 4.45      | 1        | 09/29/2019 02:14     | <a href="#">WG1353768</a> |
| (S) o-Terphenyl      | 81.5         |           |           |            | 18.0-148  |          | 09/29/2019 02:14     | <a href="#">WG1353768</a> |

Collected date/time: 09/16/19 10:50

L1142081

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 93.7   |           | 1        | 09/27/2019 13:46     | <a href="#">WG1353381</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Chloride | 65.8         |           | 0.848     | 10.0       | 10.7      | 1        | 09/24/2019 11:12     | <a href="#">WG1350262</a> |

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

| Analyte                         | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            |           | 0.0232    | 0.100      | 0.107     | 1        | 09/27/2019 20:06     | <a href="#">WG1353634</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 94.4         |           |           |            | 77.0-120  |          | 09/27/2019 20:06     | <a href="#">WG1353634</a> |

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

| Analyte                   | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000427  | 0.00100    | 0.00107   | 1        | 09/26/2019 14:16     | <a href="#">WG1352512</a> |
| Toluene                   | U            |           | 0.00133   | 0.00500    | 0.00533   | 1        | 09/26/2019 14:16     | <a href="#">WG1352512</a> |
| Ethylbenzene              | U            |           | 0.000565  | 0.00250    | 0.00267   | 1        | 09/26/2019 14:16     | <a href="#">WG1352512</a> |
| Total Xylenes             | U            |           | 0.00510   | 0.00650    | 0.00693   | 1        | 09/26/2019 14:16     | <a href="#">WG1352512</a> |
| (S) Toluene-d8            | 116          |           |           |            | 75.0-131  |          | 09/26/2019 14:16     | <a href="#">WG1352512</a> |
| (S) 4-Bromofluorobenzene  | 103          |           |           |            | 67.0-138  |          | 09/26/2019 14:16     | <a href="#">WG1352512</a> |
| (S) 1,2-Dichloroethane-d4 | 101          |           |           |            | 70.0-130  |          | 09/26/2019 14:16     | <a href="#">WG1352512</a> |

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

| Analyte              | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 4.19         | J         | 1.72      | 4.00       | 4.27      | 1        | 09/29/2019 02:27     | <a href="#">WG1353768</a> |
| C28-C40 Oil Range    | 11.5         |           | 0.292     | 4.00       | 4.27      | 1        | 09/29/2019 02:27     | <a href="#">WG1353768</a> |
| (S) o-Terphenyl      | 81.4         |           |           |            | 18.0-148  |          | 09/29/2019 02:27     | <a href="#">WG1353768</a> |

Collected date/time: 09/16/19 10:55

L1142081

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 93.9   |           | 1        | 09/27/2019 13:46     | <a href="#">WG1353381</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Chloride | 31.8         | <u>B</u>  | 0.847     | 10.0       | 10.6      | 1        | 09/24/2019 11:41     | <a href="#">WG1350262</a> |

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

| Analyte                         | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            |           | 0.0231    | 0.100      | 0.106     | 1        | 09/27/2019 20:27     | <a href="#">WG1353634</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 94.8         |           |           |            | 77.0-120  |          | 09/27/2019 20:27     | <a href="#">WG1353634</a> |

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

| Analyte                   | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000426  | 0.00100    | 0.00106   | 1        | 09/26/2019 14:37     | <a href="#">WG1352512</a> |
| Toluene                   | U            |           | 0.00133   | 0.00500    | 0.00532   | 1        | 09/26/2019 14:37     | <a href="#">WG1352512</a> |
| Ethylbenzene              | U            |           | 0.000564  | 0.00250    | 0.00266   | 1        | 09/26/2019 14:37     | <a href="#">WG1352512</a> |
| Total Xylenes             | U            |           | 0.00509   | 0.00650    | 0.00692   | 1        | 09/26/2019 14:37     | <a href="#">WG1352512</a> |
| (S) Toluene-d8            | 114          |           |           |            | 75.0-131  |          | 09/26/2019 14:37     | <a href="#">WG1352512</a> |
| (S) 4-Bromofluorobenzene  | 107          |           |           |            | 67.0-138  |          | 09/26/2019 14:37     | <a href="#">WG1352512</a> |
| (S) 1,2-Dichloroethane-d4 | 107          |           |           |            | 70.0-130  |          | 09/26/2019 14:37     | <a href="#">WG1352512</a> |

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

| Analyte              | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 2.26         | <u>J</u>  | 1.71      | 4.00       | 4.26      | 1        | 09/29/2019 02:39     | <a href="#">WG1353768</a> |
| C28-C40 Oil Range    | 6.86         |           | 0.292     | 4.00       | 4.26      | 1        | 09/29/2019 02:39     | <a href="#">WG1353768</a> |
| (S) o-Terphenyl      | 78.7         |           |           |            | 18.0-148  |          | 09/29/2019 02:39     | <a href="#">WG1353768</a> |



Collected date/time: 09/16/19 11:00

L1142081

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 86.8   |           | 1        | 09/27/2019 13:46     | <a href="#">WG1353381</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Chloride | 251          |           | 0.917     | 10.0       | 11.5      | 1        | 09/24/2019 11:50     | <a href="#">WG1350262</a> |

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

| Analyte                         | Result (dry) | Qualifier           | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|---------------------|-----------|------------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | 0.0275       | <a href="#">B J</a> | 0.0250    | 0.100      | 0.115     | 1        | 09/30/2019 13:14     | <a href="#">WG1354679</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 95.7         |                     |           |            | 77.0-120  |          | 09/30/2019 13:14     | <a href="#">WG1354679</a> |

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

| Analyte                   | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000461  | 0.00100    | 0.00115   | 1        | 09/26/2019 14:57     | <a href="#">WG1352512</a> |
| Toluene                   | U            |           | 0.00144   | 0.00500    | 0.00576   | 1        | 09/26/2019 14:57     | <a href="#">WG1352512</a> |
| Ethylbenzene              | U            |           | 0.000611  | 0.00250    | 0.00288   | 1        | 09/26/2019 14:57     | <a href="#">WG1352512</a> |
| Total Xylenes             | U            |           | 0.00551   | 0.00650    | 0.00749   | 1        | 09/26/2019 14:57     | <a href="#">WG1352512</a> |
| (S) Toluene-d8            | 111          |           |           |            | 75.0-131  |          | 09/26/2019 14:57     | <a href="#">WG1352512</a> |
| (S) 4-Bromofluorobenzene  | 105          |           |           |            | 67.0-138  |          | 09/26/2019 14:57     | <a href="#">WG1352512</a> |
| (S) 1,2-Dichloroethane-d4 | 99.3         |           |           |            | 70.0-130  |          | 09/26/2019 14:57     | <a href="#">WG1352512</a> |

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

| Analyte              | Result (dry) | Qualifier         | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-------------------|-----------|------------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U            |                   | 1.86      | 4.00       | 4.61      | 1        | 09/29/2019 02:52     | <a href="#">WG1353768</a> |
| C28-C40 Oil Range    | 1.29         | <a href="#">J</a> | 0.316     | 4.00       | 4.61      | 1        | 09/29/2019 02:52     | <a href="#">WG1353768</a> |
| (S) o-Terphenyl      | 79.3         |                   |           |            | 18.0-148  |          | 09/29/2019 02:52     | <a href="#">WG1353768</a> |

Collected date/time: 09/16/19 11:20

L1142081

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 94.2   |           | 1        | 09/27/2019 13:46     | <a href="#">WG1353381</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Chloride | 2880         |           | 8.44      | 10.0       | 106       | 10       | 09/24/2019 12:00     | <a href="#">WG1350262</a> |

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

| Analyte                         | Result (dry) | Qualifier          | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|--------------------|-----------|------------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            | <a href="#">J3</a> | 0.0230    | 0.100      | 0.106     | 1        | 09/27/2019 21:36     | <a href="#">WG1353634</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 94.2         |                    |           |            | 77.0-120  |          | 09/27/2019 21:36     | <a href="#">WG1353634</a> |

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

| Analyte                   | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000425  | 0.00100    | 0.00106   | 1        | 09/26/2019 15:18     | <a href="#">WG1352512</a> |
| Toluene                   | U            |           | 0.00133   | 0.00500    | 0.00531   | 1        | 09/26/2019 15:18     | <a href="#">WG1352512</a> |
| Ethylbenzene              | U            |           | 0.000563  | 0.00250    | 0.00265   | 1        | 09/26/2019 15:18     | <a href="#">WG1352512</a> |
| Total Xylenes             | U            |           | 0.00508   | 0.00650    | 0.00690   | 1        | 09/26/2019 15:18     | <a href="#">WG1352512</a> |
| (S) Toluene-d8            | 111          |           |           |            | 75.0-131  |          | 09/26/2019 15:18     | <a href="#">WG1352512</a> |
| (S) 4-Bromofluorobenzene  | 104          |           |           |            | 67.0-138  |          | 09/26/2019 15:18     | <a href="#">WG1352512</a> |
| (S) 1,2-Dichloroethane-d4 | 95.4         |           |           |            | 70.0-130  |          | 09/26/2019 15:18     | <a href="#">WG1352512</a> |

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

| Analyte              | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 6.51         |           | 1.71      | 4.00       | 4.25      | 1        | 09/29/2019 03:05     | <a href="#">WG1353768</a> |
| C28-C40 Oil Range    | 16.8         |           | 0.291     | 4.00       | 4.25      | 1        | 09/29/2019 03:05     | <a href="#">WG1353768</a> |
| (S) o-Terphenyl      | 62.2         |           |           |            | 18.0-148  |          | 09/29/2019 03:05     | <a href="#">WG1353768</a> |

Collected date/time: 09/16/19 11:25

L1142081

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 92.0   |           | 1        | 09/27/2019 13:46 | <a href="#">WG1353381</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| Chloride | 1650         |           | 8.64      | 10.0       | 109       | 10       | 09/24/2019 12:09 | <a href="#">WG1350262</a> |

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

| Analyte                         | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                                 | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction       | U            |           | 0.0236    | 0.100      | 0.109     | 1        | 09/27/2019 21:56 | <a href="#">WG1353634</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 94.7         |           |           |            | 77.0-120  |          | 09/27/2019 21:56 | <a href="#">WG1353634</a> |

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

| Analyte                   | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                           | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| Benzene                   | U            |           | 0.000435  | 0.00100    | 0.00109   | 1        | 09/26/2019 15:39 | <a href="#">WG1352512</a> |
| Toluene                   | U            |           | 0.00136   | 0.00500    | 0.00543   | 1        | 09/26/2019 15:39 | <a href="#">WG1352512</a> |
| Ethylbenzene              | U            |           | 0.000576  | 0.00250    | 0.00272   | 1        | 09/26/2019 15:39 | <a href="#">WG1352512</a> |
| Total Xylenes             | U            |           | 0.00519   | 0.00650    | 0.00706   | 1        | 09/26/2019 15:39 | <a href="#">WG1352512</a> |
| (S) Toluene-d8            | 113          |           |           |            | 75.0-131  |          | 09/26/2019 15:39 | <a href="#">WG1352512</a> |
| (S) 4-Bromofluorobenzene  | 105          |           |           |            | 67.0-138  |          | 09/26/2019 15:39 | <a href="#">WG1352512</a> |
| (S) 1,2-Dichloroethane-d4 | 98.4         |           |           |            | 70.0-130  |          | 09/26/2019 15:39 | <a href="#">WG1352512</a> |

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

| Analyte              | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|----------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                      | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range | 4.97         |           | 1.75      | 4.00       | 4.35      | 1        | 09/29/2019 03:17 | <a href="#">WG1353768</a> |
| C28-C40 Oil Range    | 11.5         |           | 0.298     | 4.00       | 4.35      | 1        | 09/29/2019 03:17 | <a href="#">WG1353768</a> |
| (S) o-Terphenyl      | 80.2         |           |           |            | 18.0-148  |          | 09/29/2019 03:17 | <a href="#">WG1353768</a> |

Collected date/time: 09/16/19 11:30

L1142081

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 94.1   |           | 1        | 09/27/2019 13:46     | <a href="#">WG1353381</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Chloride | 70.4         |           | 0.845     | 10.0       | 10.6      | 1        | 09/24/2019 12:19     | <a href="#">WG1350262</a> |

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

| Analyte                         | Result (dry) | Qualifier  | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|------------|-----------|------------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | 0.0233       | <b>B J</b> | 0.0231    | 0.100      | 0.106     | 1        | 09/30/2019 13:34     | <a href="#">WG1354679</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 97.8         |            |           |            | 77.0-120  |          | 09/30/2019 13:34     | <a href="#">WG1354679</a> |

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

| Analyte                   | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000425  | 0.00100    | 0.00106   | 1        | 09/26/2019 16:00     | <a href="#">WG1352512</a> |
| Toluene                   | U            |           | 0.00133   | 0.00500    | 0.00531   | 1        | 09/26/2019 16:00     | <a href="#">WG1352512</a> |
| Ethylbenzene              | U            |           | 0.000563  | 0.00250    | 0.00266   | 1        | 09/26/2019 16:00     | <a href="#">WG1352512</a> |
| Total Xylenes             | U            |           | 0.00508   | 0.00650    | 0.00691   | 1        | 09/26/2019 16:00     | <a href="#">WG1352512</a> |
| (S) Toluene-d8            | 114          |           |           |            | 75.0-131  |          | 09/26/2019 16:00     | <a href="#">WG1352512</a> |
| (S) 4-Bromofluorobenzene  | 105          |           |           |            | 67.0-138  |          | 09/26/2019 16:00     | <a href="#">WG1352512</a> |
| (S) 1,2-Dichloroethane-d4 | 104          |           |           |            | 70.0-130  |          | 09/26/2019 16:00     | <a href="#">WG1352512</a> |

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

| Analyte              | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U            |           | 1.71      | 4.00       | 4.25      | 1        | 09/29/2019 03:30     | <a href="#">WG1353768</a> |
| C28-C40 Oil Range    | 2.20         | <b>J</b>  | 0.291     | 4.00       | 4.25      | 1        | 09/29/2019 03:30     | <a href="#">WG1353768</a> |
| (S) o-Terphenyl      | 89.2         |           |           |            | 18.0-148  |          | 09/29/2019 03:30     | <a href="#">WG1353768</a> |

Collected date/time: 09/16/19 11:45

L1142081

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 92.5   |           | 1        | 09/27/2019 13:46 | <a href="#">WG1353381</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| Chloride | 3250         |           | 8.59      | 10.0       | 108       | 10       | 09/24/2019 12:28 | <a href="#">WG1350262</a> |

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

| Analyte                         | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                                 | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction       | U            |           | 0.0234    | 0.100      | 0.108     | 1        | 09/30/2019 13:55 | <a href="#">WG1354679</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 95.2         |           |           |            | 77.0-120  |          | 09/30/2019 13:55 | <a href="#">WG1354679</a> |

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

| Analyte                   | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                           | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| Benzene                   | U            |           | 0.000432  | 0.00100    | 0.00108   | 1        | 09/26/2019 16:20 | <a href="#">WG1352512</a> |
| Toluene                   | U            |           | 0.00135   | 0.00500    | 0.00540   | 1        | 09/26/2019 16:20 | <a href="#">WG1352512</a> |
| Ethylbenzene              | U            |           | 0.000573  | 0.00250    | 0.00270   | 1        | 09/26/2019 16:20 | <a href="#">WG1352512</a> |
| Total Xylenes             | U            |           | 0.00517   | 0.00650    | 0.00702   | 1        | 09/26/2019 16:20 | <a href="#">WG1352512</a> |
| (S) Toluene-d8            | 112          |           |           |            | 75.0-131  |          | 09/26/2019 16:20 | <a href="#">WG1352512</a> |
| (S) 4-Bromofluorobenzene  | 105          |           |           |            | 67.0-138  |          | 09/26/2019 16:20 | <a href="#">WG1352512</a> |
| (S) 1,2-Dichloroethane-d4 | 108          |           |           |            | 70.0-130  |          | 09/26/2019 16:20 | <a href="#">WG1352512</a> |

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

| Analyte              | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|----------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                      | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range | 12.3         |           | 1.74      | 4.00       | 4.32      | 1        | 09/29/2019 03:42 | <a href="#">WG1353768</a> |
| C28-C40 Oil Range    | 36.4         |           | 0.296     | 4.00       | 4.32      | 1        | 09/29/2019 03:42 | <a href="#">WG1353768</a> |
| (S) o-Terphenyl      | 53.0         |           |           |            | 18.0-148  |          | 09/29/2019 03:42 | <a href="#">WG1353768</a> |

Collected date/time: 09/16/19 11:50

L1142081

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 89.0   |           | 1        | 09/27/2019 13:46 | <a href="#">WG1353381</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| Chloride | 1350         |           | 4.47      | 10.0       | 56.2      | 5        | 09/24/2019 12:38 | <a href="#">WG1350262</a> |

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

| Analyte                         | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                                 | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction       | U            |           | 0.0244    | 0.100      | 0.112     | 1        | 09/30/2019 14:50 | <a href="#">WG1354679</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 94.3         |           |           |            | 77.0-120  |          | 09/30/2019 14:50 | <a href="#">WG1354679</a> |

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

| Analyte                   | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                           | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| Benzene                   | U            |           | 0.000449  | 0.00100    | 0.00112   | 1        | 09/26/2019 16:41 | <a href="#">WG1352512</a> |
| Toluene                   | U            |           | 0.00140   | 0.00500    | 0.00562   | 1        | 09/26/2019 16:41 | <a href="#">WG1352512</a> |
| Ethylbenzene              | U            |           | 0.000595  | 0.00250    | 0.00281   | 1        | 09/26/2019 16:41 | <a href="#">WG1352512</a> |
| Total Xylenes             | U            |           | 0.00537   | 0.00650    | 0.00730   | 1        | 09/26/2019 16:41 | <a href="#">WG1352512</a> |
| (S) Toluene-d8            | 113          |           |           |            | 75.0-131  |          | 09/26/2019 16:41 | <a href="#">WG1352512</a> |
| (S) 4-Bromofluorobenzene  | 107          |           |           |            | 67.0-138  |          | 09/26/2019 16:41 | <a href="#">WG1352512</a> |
| (S) 1,2-Dichloroethane-d4 | 110          |           |           |            | 70.0-130  |          | 09/26/2019 16:41 | <a href="#">WG1352512</a> |

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

| Analyte              | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|----------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                      | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range | 14.8         |           | 1.81      | 4.00       | 4.49      | 1        | 09/27/2019 01:53 | <a href="#">WG1352422</a> |
| C28-C40 Oil Range    | 58.6         |           | 0.308     | 4.00       | 4.49      | 1        | 09/27/2019 01:53 | <a href="#">WG1352422</a> |
| (S) o-Terphenyl      | 37.5         |           |           |            | 18.0-148  |          | 09/27/2019 01:53 | <a href="#">WG1352422</a> |



Collected date/time: 09/16/19 11:55

L1142081

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 95.8   |           | 1        | 09/27/2019 13:46 | <a href="#">WG1353381</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| Chloride | 1060         |           | 4.15      | 10.0       | 52.2      | 5        | 09/24/2019 13:35 | <a href="#">WG1350262</a> |

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

| Analyte                         | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                                 | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction       | U            |           | 0.0227    | 0.100      | 0.104     | 1        | 09/28/2019 03:12 | <a href="#">WG1353634</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 94.4         |           |           |            | 77.0-120  |          | 09/28/2019 03:12 | <a href="#">WG1353634</a> |

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

| Analyte                   | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                           | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| Benzene                   | U            |           | 0.000418  | 0.00100    | 0.00104   | 1        | 09/26/2019 17:01 | <a href="#">WG1352512</a> |
| Toluene                   | U            |           | 0.00131   | 0.00500    | 0.00522   | 1        | 09/26/2019 17:01 | <a href="#">WG1352512</a> |
| Ethylbenzene              | U            |           | 0.000553  | 0.00250    | 0.00261   | 1        | 09/26/2019 17:01 | <a href="#">WG1352512</a> |
| Total Xylenes             | U            |           | 0.00499   | 0.00650    | 0.00679   | 1        | 09/26/2019 17:01 | <a href="#">WG1352512</a> |
| (S) Toluene-d8            | 113          |           |           |            | 75.0-131  |          | 09/26/2019 17:01 | <a href="#">WG1352512</a> |
| (S) 4-Bromofluorobenzene  | 103          |           |           |            | 67.0-138  |          | 09/26/2019 17:01 | <a href="#">WG1352512</a> |
| (S) 1,2-Dichloroethane-d4 | 99.5         |           |           |            | 70.0-130  |          | 09/26/2019 17:01 | <a href="#">WG1352512</a> |

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

| Analyte              | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|----------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                      | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range | U            |           | 1.68      | 4.00       | 4.18      | 1        | 09/26/2019 21:54 | <a href="#">WG1352422</a> |
| C28-C40 Oil Range    | U            |           | 0.286     | 4.00       | 4.18      | 1        | 09/26/2019 21:54 | <a href="#">WG1352422</a> |
| (S) o-Terphenyl      | 78.6         |           |           |            | 18.0-148  |          | 09/26/2019 21:54 | <a href="#">WG1352422</a> |

Collected date/time: 09/16/19 13:30

L1142081

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 95.5   |           | 1        | 09/27/2019 13:46 | <a href="#">WG1353381</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| Chloride | 4510         |           | 16.7      | 10.0       | 210       | 20       | 09/24/2019 13:44 | <a href="#">WG1350262</a> |

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

| Analyte                         | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                                 | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction       | U            |           | 0.0227    | 0.100      | 0.105     | 1        | 09/28/2019 03:32 | <a href="#">WG1353634</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 94.1         |           |           |            | 77.0-120  |          | 09/28/2019 03:32 | <a href="#">WG1353634</a> |

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

| Analyte                   | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                           | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| Benzene                   | U            |           | 0.000419  | 0.00100    | 0.00105   | 1        | 09/26/2019 17:21 | <a href="#">WG1352512</a> |
| Toluene                   | U            |           | 0.00131   | 0.00500    | 0.00524   | 1        | 09/26/2019 17:21 | <a href="#">WG1352512</a> |
| Ethylbenzene              | U            |           | 0.000555  | 0.00250    | 0.00262   | 1        | 09/26/2019 17:21 | <a href="#">WG1352512</a> |
| Total Xylenes             | U            |           | 0.00501   | 0.00650    | 0.00681   | 1        | 09/26/2019 17:21 | <a href="#">WG1352512</a> |
| (S) Toluene-d8            | 113          |           |           |            | 75.0-131  |          | 09/26/2019 17:21 | <a href="#">WG1352512</a> |
| (S) 4-Bromofluorobenzene  | 105          |           |           |            | 67.0-138  |          | 09/26/2019 17:21 | <a href="#">WG1352512</a> |
| (S) 1,2-Dichloroethane-d4 | 106          |           |           |            | 70.0-130  |          | 09/26/2019 17:21 | <a href="#">WG1352512</a> |

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

| Analyte              | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|----------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                      | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range | 9.08         |           | 1.69      | 4.00       | 4.19      | 1        | 09/27/2019 01:16 | <a href="#">WG1352422</a> |
| C28-C40 Oil Range    | 30.8         |           | 0.287     | 4.00       | 4.19      | 1        | 09/27/2019 01:16 | <a href="#">WG1352422</a> |
| (S) o-Terphenyl      | 47.2         |           |           |            | 18.0-148  |          | 09/27/2019 01:16 | <a href="#">WG1352422</a> |

Collected date/time: 09/16/19 13:40

L1142081

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 95.4   |           | 1        | 09/27/2019 13:32 | <a href="#">WG1353382</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| Chloride | 3370         |           | 16.7      | 10.0       | 210       | 20       | 09/24/2019 13:54 | <a href="#">WG1350262</a> |

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

| Analyte                         | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                                 | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction       | U            |           | 0.0227    | 0.100      | 0.105     | 1        | 09/28/2019 03:53 | <a href="#">WG1353634</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 93.8         |           |           |            | 77.0-120  |          | 09/28/2019 03:53 | <a href="#">WG1353634</a> |

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

| Analyte                   | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                           | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| Benzene                   | U            |           | 0.000419  | 0.00100    | 0.00105   | 1        | 09/28/2019 11:35 | <a href="#">WG1353482</a> |
| Toluene                   | U            |           | 0.00131   | 0.00500    | 0.00524   | 1        | 09/28/2019 11:35 | <a href="#">WG1353482</a> |
| Ethylbenzene              | U            |           | 0.000555  | 0.00250    | 0.00262   | 1        | 09/28/2019 11:35 | <a href="#">WG1353482</a> |
| Total Xylenes             | U            |           | 0.00501   | 0.00650    | 0.00681   | 1        | 09/28/2019 11:35 | <a href="#">WG1353482</a> |
| (S) Toluene-d8            | 114          |           |           |            | 75.0-131  |          | 09/28/2019 11:35 | <a href="#">WG1353482</a> |
| (S) 4-Bromofluorobenzene  | 107          |           |           |            | 67.0-138  |          | 09/28/2019 11:35 | <a href="#">WG1353482</a> |
| (S) 1,2-Dichloroethane-d4 | 96.3         |           |           |            | 70.0-130  |          | 09/28/2019 11:35 | <a href="#">WG1353482</a> |

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

| Analyte              | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|----------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                      | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range | 10.9         |           | 1.69      | 4.00       | 4.19      | 1        | 09/27/2019 01:28 | <a href="#">WG1352422</a> |
| C28-C40 Oil Range    | 37.1         |           | 0.287     | 4.00       | 4.19      | 1        | 09/27/2019 01:28 | <a href="#">WG1352422</a> |
| (S) o-Terphenyl      | 46.7         |           |           |            | 18.0-148  |          | 09/27/2019 01:28 | <a href="#">WG1352422</a> |

Collected date/time: 09/16/19 13:50

L1142081

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 95.1   |           | 1        | 09/27/2019 13:32     | <a href="#">WG1353382</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Chloride | 2210         |           | 8.37      | 10.0       | 105       | 10       | 09/24/2019 14:03     | <a href="#">WG1350262</a> |

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

| Analyte                         | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            |           | 0.0228    | 0.100      | 0.105     | 1        | 09/28/2019 08:45     | <a href="#">WG1353634</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 93.8         |           |           |            | 77.0-120  |          | 09/28/2019 08:45     | <a href="#">WG1353634</a> |

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

| Analyte                   | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000421  | 0.00100    | 0.00105   | 1        | 09/26/2019 21:04     | <a href="#">WG1352625</a> |
| Toluene                   | U            |           | 0.00132   | 0.00500    | 0.00526   | 1        | 09/26/2019 21:04     | <a href="#">WG1352625</a> |
| Ethylbenzene              | U            |           | 0.000558  | 0.00250    | 0.00263   | 1        | 09/26/2019 21:04     | <a href="#">WG1352625</a> |
| Total Xylenes             | U            |           | 0.00503   | 0.00650    | 0.00684   | 1        | 09/26/2019 21:04     | <a href="#">WG1352625</a> |
| (S) Toluene-d8            | 114          |           |           |            | 75.0-131  |          | 09/26/2019 21:04     | <a href="#">WG1352625</a> |
| (S) 4-Bromofluorobenzene  | 104          |           |           |            | 67.0-138  |          | 09/26/2019 21:04     | <a href="#">WG1352625</a> |
| (S) 1,2-Dichloroethane-d4 | 109          |           |           |            | 70.0-130  |          | 09/26/2019 21:04     | <a href="#">WG1352625</a> |

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

| Analyte              | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U            |           | 1.69      | 4.00       | 4.21      | 1        | 09/26/2019 22:07     | <a href="#">WG1352422</a> |
| C28-C40 Oil Range    | U            |           | 0.288     | 4.00       | 4.21      | 1        | 09/26/2019 22:07     | <a href="#">WG1352422</a> |
| (S) o-Terphenyl      | 73.6         |           |           |            | 18.0-148  |          | 09/26/2019 22:07     | <a href="#">WG1352422</a> |

Collected date/time: 09/16/19 14:30

L1142081

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 93.3   |           | 1        | 09/27/2019 13:32     | <a href="#">WG1353382</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Chloride | 2400         |           | 8.52      | 10.0       | 107       | 10       | 09/24/2019 14:13     | <a href="#">WG1350262</a> |

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

| Analyte                         | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            |           | 0.0233    | 0.100      | 0.107     | 1        | 09/28/2019 09:06     | <a href="#">WG1353634</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 93.0         |           |           |            | 77.0-120  |          | 09/28/2019 09:06     | <a href="#">WG1353634</a> |

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

| Analyte                   | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000429  | 0.00100    | 0.00107   | 1        | 09/26/2019 21:25     | <a href="#">WG1352625</a> |
| Toluene                   | U            |           | 0.00134   | 0.00500    | 0.00536   | 1        | 09/26/2019 21:25     | <a href="#">WG1352625</a> |
| Ethylbenzene              | U            |           | 0.000568  | 0.00250    | 0.00268   | 1        | 09/26/2019 21:25     | <a href="#">WG1352625</a> |
| Total Xylenes             | U            |           | 0.00512   | 0.00650    | 0.00697   | 1        | 09/26/2019 21:25     | <a href="#">WG1352625</a> |
| (S) Toluene-d8            | 111          |           |           |            | 75.0-131  |          | 09/26/2019 21:25     | <a href="#">WG1352625</a> |
| (S) 4-Bromofluorobenzene  | 102          |           |           |            | 67.0-138  |          | 09/26/2019 21:25     | <a href="#">WG1352625</a> |
| (S) 1,2-Dichloroethane-d4 | 103          |           |           |            | 70.0-130  |          | 09/26/2019 21:25     | <a href="#">WG1352625</a> |

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

| Analyte              | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 9.70         |           | 1.73      | 4.00       | 4.29      | 1        | 09/27/2019 02:06     | <a href="#">WG1352422</a> |
| C28-C40 Oil Range    | 44.4         |           | 0.294     | 4.00       | 4.29      | 1        | 09/27/2019 02:06     | <a href="#">WG1352422</a> |
| (S) o-Terphenyl      | 48.6         |           |           |            | 18.0-148  |          | 09/27/2019 02:06     | <a href="#">WG1352422</a> |

Collected date/time: 09/16/19 14:35

L1142081

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 92.9   |           | 1        | 09/27/2019 13:32     | <a href="#">WG1353382</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Chloride | 1470         |           | 4.28      | 10.0       | 53.8      | 5        | 09/24/2019 14:32     | <a href="#">WG1350262</a> |

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

| Analyte                         | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            |           | 0.0233    | 0.100      | 0.108     | 1        | 09/28/2019 09:26     | <a href="#">WG1353634</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 93.3         |           |           |            | 77.0-120  |          | 09/28/2019 09:26     | <a href="#">WG1353634</a> |

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

| Analyte                   | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000430  | 0.00100    | 0.00108   | 1        | 09/26/2019 21:45     | <a href="#">WG1352625</a> |
| Toluene                   | U            |           | 0.00135   | 0.00500    | 0.00538   | 1        | 09/26/2019 21:45     | <a href="#">WG1352625</a> |
| Ethylbenzene              | U            |           | 0.000570  | 0.00250    | 0.00269   | 1        | 09/26/2019 21:45     | <a href="#">WG1352625</a> |
| Total Xylenes             | U            |           | 0.00514   | 0.00650    | 0.00699   | 1        | 09/26/2019 21:45     | <a href="#">WG1352625</a> |
| (S) Toluene-d8            | 113          |           |           |            | 75.0-131  |          | 09/26/2019 21:45     | <a href="#">WG1352625</a> |
| (S) 4-Bromofluorobenzene  | 106          |           |           |            | 67.0-138  |          | 09/26/2019 21:45     | <a href="#">WG1352625</a> |
| (S) 1,2-Dichloroethane-d4 | 107          |           |           |            | 70.0-130  |          | 09/26/2019 21:45     | <a href="#">WG1352625</a> |

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

| Analyte              | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 14.4         |           | 1.73      | 4.00       | 4.30      | 1        | 09/27/2019 02:19     | <a href="#">WG1352422</a> |
| C28-C40 Oil Range    | 62.3         |           | 0.295     | 4.00       | 4.30      | 1        | 09/27/2019 02:19     | <a href="#">WG1352422</a> |
| (S) o-Terphenyl      | 47.7         |           |           |            | 18.0-148  |          | 09/27/2019 02:19     | <a href="#">WG1352422</a> |



Collected date/time: 09/16/19 14:40

L1142081

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 89.8   |           | 1        | 09/27/2019 13:32 | <a href="#">WG1353382</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| Chloride | 3340         |           | 8.85      | 10.0       | 111       | 10       | 09/24/2019 00:14 | <a href="#">WG1350445</a> |

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

| Analyte                         | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                                 | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction       | U            |           | 0.0242    | 0.100      | 0.111     | 1        | 09/27/2019 21:55 | <a href="#">WG1354028</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 99.7         |           |           |            | 77.0-120  |          | 09/27/2019 21:55 | <a href="#">WG1354028</a> |

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

| Analyte                   | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                           | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| Benzene                   | U            |           | 0.000445  | 0.00100    | 0.00111   | 1        | 09/26/2019 22:05 | <a href="#">WG1352625</a> |
| Toluene                   | U            |           | 0.00139   | 0.00500    | 0.00556   | 1        | 09/26/2019 22:05 | <a href="#">WG1352625</a> |
| Ethylbenzene              | U            |           | 0.000590  | 0.00250    | 0.00278   | 1        | 09/26/2019 22:05 | <a href="#">WG1352625</a> |
| Total Xylenes             | U            |           | 0.00532   | 0.00650    | 0.00723   | 1        | 09/26/2019 22:05 | <a href="#">WG1352625</a> |
| (S) Toluene-d8            | 111          |           |           |            | 75.0-131  |          | 09/26/2019 22:05 | <a href="#">WG1352625</a> |
| (S) 4-Bromofluorobenzene  | 100          |           |           |            | 67.0-138  |          | 09/26/2019 22:05 | <a href="#">WG1352625</a> |
| (S) 1,2-Dichloroethane-d4 | 113          |           |           |            | 70.0-130  |          | 09/26/2019 22:05 | <a href="#">WG1352625</a> |

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

| Analyte              | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|----------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                      | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range | 7.39         |           | 1.79      | 4.00       | 4.45      | 1        | 09/26/2019 23:47 | <a href="#">WG1352422</a> |
| C28-C40 Oil Range    | 23.5         |           | 0.305     | 4.00       | 4.45      | 1        | 09/26/2019 23:47 | <a href="#">WG1352422</a> |
| (S) o-Terphenyl      | 47.2         |           |           |            | 18.0-148  |          | 09/26/2019 23:47 | <a href="#">WG1352422</a> |

Collected date/time: 09/16/19 15:00

L1142081

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 97.0   |           | 1        | 09/27/2019 13:32     | <a href="#">WG1353382</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Chloride | 44.0         |           | 0.819     | 10.0       | 10.3      | 1        | 09/24/2019 00:23     | <a href="#">WG1350445</a> |

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

| Analyte                         | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            |           | 0.0224    | 0.100      | 0.103     | 1        | 09/27/2019 22:16     | <a href="#">WG1354028</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 102          |           |           |            | 77.0-120  |          | 09/27/2019 22:16     | <a href="#">WG1354028</a> |

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

| Analyte                   | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000412  | 0.00100    | 0.00103   | 1        | 09/26/2019 22:26     | <a href="#">WG1352625</a> |
| Toluene                   | U            |           | 0.00129   | 0.00500    | 0.00515   | 1        | 09/26/2019 22:26     | <a href="#">WG1352625</a> |
| Ethylbenzene              | U            |           | 0.000546  | 0.00250    | 0.00258   | 1        | 09/26/2019 22:26     | <a href="#">WG1352625</a> |
| Total Xylenes             | U            |           | 0.00493   | 0.00650    | 0.00670   | 1        | 09/26/2019 22:26     | <a href="#">WG1352625</a> |
| (S) Toluene-d8            | 114          |           |           |            | 75.0-131  |          | 09/26/2019 22:26     | <a href="#">WG1352625</a> |
| (S) 4-Bromofluorobenzene  | 106          |           |           |            | 67.0-138  |          | 09/26/2019 22:26     | <a href="#">WG1352625</a> |
| (S) 1,2-Dichloroethane-d4 | 107          |           |           |            | 70.0-130  |          | 09/26/2019 22:26     | <a href="#">WG1352625</a> |

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

| Analyte              | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U            |           | 1.66      | 4.00       | 4.12      | 1        | 09/29/2019 03:55     | <a href="#">WG1353768</a> |
| C28-C40 Oil Range    | 7.08         |           | 0.282     | 4.00       | 4.12      | 1        | 09/29/2019 03:55     | <a href="#">WG1353768</a> |
| (S) o-Terphenyl      | 83.8         |           |           |            | 18.0-148  |          | 09/29/2019 03:55     | <a href="#">WG1353768</a> |

Collected date/time: 09/16/19 15:10

L1142081

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 95.0   |           | 1        | 09/27/2019 13:32 | <a href="#">WG1353382</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| Chloride | 158          |           | 0.837     | 10.0       | 10.5      | 1        | 09/24/2019 00:33 | <a href="#">WG1350445</a> |

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

| Analyte                         | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                                 | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction       | U            |           | 0.0229    | 0.100      | 0.105     | 1        | 09/27/2019 22:36 | <a href="#">WG1354028</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 102          |           |           |            | 77.0-120  |          | 09/27/2019 22:36 | <a href="#">WG1354028</a> |

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

| Analyte                   | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                           | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| Benzene                   | U            |           | 0.000421  | 0.00100    | 0.00105   | 1        | 09/26/2019 22:46 | <a href="#">WG1352625</a> |
| Toluene                   | U            |           | 0.00132   | 0.00500    | 0.00527   | 1        | 09/26/2019 22:46 | <a href="#">WG1352625</a> |
| Ethylbenzene              | U            |           | 0.000558  | 0.00250    | 0.00263   | 1        | 09/26/2019 22:46 | <a href="#">WG1352625</a> |
| Total Xylenes             | U            |           | 0.00503   | 0.00650    | 0.00684   | 1        | 09/26/2019 22:46 | <a href="#">WG1352625</a> |
| (S) Toluene-d8            | 112          |           |           |            | 75.0-131  |          | 09/26/2019 22:46 | <a href="#">WG1352625</a> |
| (S) 4-Bromofluorobenzene  | 105          |           |           |            | 67.0-138  |          | 09/26/2019 22:46 | <a href="#">WG1352625</a> |
| (S) 1,2-Dichloroethane-d4 | 110          |           |           |            | 70.0-130  |          | 09/26/2019 22:46 | <a href="#">WG1352625</a> |

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

| Analyte              | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|----------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                      | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range | 2.92         | J         | 1.70      | 4.00       | 4.21      | 1        | 09/27/2019 00:38 | <a href="#">WG1352422</a> |
| C28-C40 Oil Range    | 8.76         |           | 0.289     | 4.00       | 4.21      | 1        | 09/27/2019 00:38 | <a href="#">WG1352422</a> |
| (S) o-Terphenyl      | 62.5         |           |           |            | 18.0-148  |          | 09/27/2019 00:38 | <a href="#">WG1352422</a> |

Collected date/time: 09/16/19 15:20

L1142081

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 90.9   |           | 1        | 09/27/2019 13:32     | <a href="#">WG1353382</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Chloride | 14.6         | <u>B</u>  | 0.875     | 10.0       | 11.0      | 1        | 09/24/2019 19:52     | <a href="#">WG1350714</a> |

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

| Analyte                         | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            |           | 0.0239    | 0.100      | 0.110     | 1        | 09/27/2019 22:57     | <a href="#">WG1354028</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 103          |           |           |            | 77.0-120  |          | 09/27/2019 22:57     | <a href="#">WG1354028</a> |

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

| Analyte                   | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000440  | 0.00100    | 0.00110   | 1        | 09/26/2019 23:07     | <a href="#">WG1352625</a> |
| Toluene                   | U            |           | 0.00138   | 0.00500    | 0.00550   | 1        | 09/26/2019 23:07     | <a href="#">WG1352625</a> |
| Ethylbenzene              | U            |           | 0.000583  | 0.00250    | 0.00275   | 1        | 09/26/2019 23:07     | <a href="#">WG1352625</a> |
| Total Xylenes             | U            |           | 0.00526   | 0.00650    | 0.00715   | 1        | 09/26/2019 23:07     | <a href="#">WG1352625</a> |
| (S) Toluene-d8            | 115          |           |           |            | 75.0-131  |          | 09/26/2019 23:07     | <a href="#">WG1352625</a> |
| (S) 4-Bromofluorobenzene  | 106          |           |           |            | 67.0-138  |          | 09/26/2019 23:07     | <a href="#">WG1352625</a> |
| (S) 1,2-Dichloroethane-d4 | 103          |           |           |            | 70.0-130  |          | 09/26/2019 23:07     | <a href="#">WG1352625</a> |

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

| Analyte              | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U            |           | 1.77      | 4.00       | 4.40      | 1        | 09/26/2019 23:35     | <a href="#">WG1352422</a> |
| C28-C40 Oil Range    | U            |           | 0.302     | 4.00       | 4.40      | 1        | 09/26/2019 23:35     | <a href="#">WG1352422</a> |
| (S) o-Terphenyl      | 71.7         |           |           |            | 18.0-148  |          | 09/26/2019 23:35     | <a href="#">WG1352422</a> |

Collected date/time: 09/16/19 15:45

L1142081

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 98.0   |           | 1        | 09/27/2019 13:32     | <a href="#">WG1353382</a> |

1 Cp

2 Tc

3 Ss

4 Cn

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Chloride | 104          |           | 0.811     | 10.0       | 10.2      | 1        | 09/24/2019 20:10     | <a href="#">WG1350714</a> |

5 Sr

6 Qc

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

| Analyte                         | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            |           | 0.0224    | 0.100      | 0.103     | 1.01     | 09/27/2019 23:17     | <a href="#">WG1354028</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 103          |           |           |            | 77.0-120  |          | 09/27/2019 23:17     | <a href="#">WG1354028</a> |

7 Gl

8 Al

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

| Analyte                   | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000408  | 0.00100    | 0.00102   | 1        | 09/26/2019 23:27     | <a href="#">WG1352625</a> |
| Toluene                   | U            |           | 0.00128   | 0.00500    | 0.00510   | 1        | 09/26/2019 23:27     | <a href="#">WG1352625</a> |
| Ethylbenzene              | U            |           | 0.000541  | 0.00250    | 0.00255   | 1        | 09/26/2019 23:27     | <a href="#">WG1352625</a> |
| Total Xylenes             | U            |           | 0.00488   | 0.00650    | 0.00663   | 1        | 09/26/2019 23:27     | <a href="#">WG1352625</a> |
| (S) Toluene-d8            | 112          |           |           |            | 75.0-131  |          | 09/26/2019 23:27     | <a href="#">WG1352625</a> |
| (S) 4-Bromofluorobenzene  | 104          |           |           |            | 67.0-138  |          | 09/26/2019 23:27     | <a href="#">WG1352625</a> |
| (S) 1,2-Dichloroethane-d4 | 112          |           |           |            | 70.0-130  |          | 09/26/2019 23:27     | <a href="#">WG1352625</a> |

9 Sc

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

| Analyte              | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 2.90         | J         | 1.64      | 4.00       | 4.08      | 1        | 09/27/2019 01:03     | <a href="#">WG1352422</a> |
| C28-C40 Oil Range    | 13.2         |           | 0.280     | 4.00       | 4.08      | 1        | 09/27/2019 01:03     | <a href="#">WG1352422</a> |
| (S) o-Terphenyl      | 62.2         |           |           |            | 18.0-148  |          | 09/27/2019 01:03     | <a href="#">WG1352422</a> |

Collected date/time: 09/16/19 15:50

L1142081

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 99.1   |           | 1        | 09/27/2019 13:32 | <a href="#">WG1353382</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| Chloride | 184          |           | 0.802     | 10.0       | 10.1      | 1        | 09/24/2019 20:20 | <a href="#">WG1350714</a> |

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

| Analyte                         | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                                 | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction       | U            |           | 0.0219    | 0.100      | 0.101     | 1        | 09/27/2019 23:38 | <a href="#">WG1354028</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 102          |           |           |            | 77.0-120  |          | 09/27/2019 23:38 | <a href="#">WG1354028</a> |

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

| Analyte                   | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                           | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| Benzene                   | U            |           | 0.000403  | 0.00100    | 0.00101   | 1        | 09/26/2019 23:47 | <a href="#">WG1352625</a> |
| Toluene                   | U            |           | 0.00126   | 0.00500    | 0.00504   | 1        | 09/26/2019 23:47 | <a href="#">WG1352625</a> |
| Ethylbenzene              | U            |           | 0.000535  | 0.00250    | 0.00252   | 1        | 09/26/2019 23:47 | <a href="#">WG1352625</a> |
| Total Xylenes             | U            |           | 0.00482   | 0.00650    | 0.00656   | 1        | 09/26/2019 23:47 | <a href="#">WG1352625</a> |
| (S) Toluene-d8            | 115          |           |           |            | 75.0-131  |          | 09/26/2019 23:47 | <a href="#">WG1352625</a> |
| (S) 4-Bromofluorobenzene  | 108          |           |           |            | 67.0-138  |          | 09/26/2019 23:47 | <a href="#">WG1352625</a> |
| (S) 1,2-Dichloroethane-d4 | 106          |           |           |            | 70.0-130  |          | 09/26/2019 23:47 | <a href="#">WG1352625</a> |

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

| Analyte              | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis         | Batch                     |
|----------------------|--------------|-----------|-----------|------------|-----------|----------|------------------|---------------------------|
|                      | mg/kg        |           | mg/kg     | mg/kg      | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range | 5.12         |           | 1.62      | 4.00       | 4.03      | 1        | 09/27/2019 01:41 | <a href="#">WG1352422</a> |
| C28-C40 Oil Range    | 29.4         |           | 0.276     | 4.00       | 4.03      | 1        | 09/27/2019 01:41 | <a href="#">WG1352422</a> |
| (S) o-Terphenyl      | 57.9         |           |           |            | 18.0-148  |          | 09/27/2019 01:41 | <a href="#">WG1352422</a> |

Collected date/time: 09/16/19 15:55

L1142081

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 94.2   |           | 1        | 09/30/2019 07:58     | <a href="#">WG1353383</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Chloride | 750          |           | 0.845     | 10.0       | 10.6      | 1        | 09/24/2019 20:29     | <a href="#">WG1350714</a> |

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

| Analyte                         | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            |           | 0.0233    | 0.100      | 0.107     | 1.01     | 09/28/2019 08:11     | <a href="#">WG1353697</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 101          |           |           |            | 77.0-120  |          | 09/28/2019 08:11     | <a href="#">WG1353697</a> |

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

| Analyte                   | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000425  | 0.00100    | 0.00106   | 1        | 09/27/2019 00:08     | <a href="#">WG1352625</a> |
| Toluene                   | U            |           | 0.00133   | 0.00500    | 0.00531   | 1        | 09/27/2019 00:08     | <a href="#">WG1352625</a> |
| Ethylbenzene              | U            |           | 0.000563  | 0.00250    | 0.00266   | 1        | 09/27/2019 00:08     | <a href="#">WG1352625</a> |
| Total Xylenes             | U            |           | 0.00508   | 0.00650    | 0.00690   | 1        | 09/27/2019 00:08     | <a href="#">WG1352625</a> |
| (S) Toluene-d8            | 110          |           |           |            | 75.0-131  |          | 09/27/2019 00:08     | <a href="#">WG1352625</a> |
| (S) 4-Bromofluorobenzene  | 104          |           |           |            | 67.0-138  |          | 09/27/2019 00:08     | <a href="#">WG1352625</a> |
| (S) 1,2-Dichloroethane-d4 | 108          |           |           |            | 70.0-130  |          | 09/27/2019 00:08     | <a href="#">WG1352625</a> |

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

| Analyte              | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U            |           | 1.71      | 4.00       | 4.25      | 1        | 09/26/2019 22:57     | <a href="#">WG1352422</a> |
| C28-C40 Oil Range    | 0.649        | J         | 0.291     | 4.00       | 4.25      | 1        | 09/26/2019 22:57     | <a href="#">WG1352422</a> |
| (S) o-Terphenyl      | 72.2         |           |           |            | 18.0-148  |          | 09/26/2019 22:57     | <a href="#">WG1352422</a> |



Total Solids by Method 2540 G-2011 [L1142081-01,02,03,04,05,06](#)

Method Blank (MB)

(MB) R3455478-1 09/27/19 14:01

|              | MB Result | <u>MB Qualifier</u> | MB MDL | MB RDL |
|--------------|-----------|---------------------|--------|--------|
| Analyte      | %         |                     | %      | %      |
| Total Solids | 0.00100   |                     |        |        |

L1142081-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1142081-02 09/27/19 14:01 • (DUP) R3455478-3 09/27/19 14:01

|              | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte      | %               | %          |          | %       |                      | %              |
| Total Solids | 93.3            | 95.7       | 1        | 2.55    |                      | 10             |

Laboratory Control Sample (LCS)

(LCS) R3455478-2 09/27/19 14:01

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

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011 [L1142081-07,08,09,10,11,12,13,14,15,16](#)

Method Blank (MB)

(MB) R3455477-1 09/27/19 13:46

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

L1142081-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1142081-13 09/27/19 13:46 • (DUP) R3455477-3 09/27/19 13:46

|              | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte      | %               | %          |          | %       |               | %              |
| Total Solids | 92.5            | 93.1       | 1        | 0.605   |               | 10             |

Laboratory Control Sample (LCS)

(LCS) R3455477-2 09/27/19 13:46

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

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011 [L1142081-17,18,19,20,21,22,23,24,25,26](#)

Method Blank (MB)

(MB) R3455474-1 09/27/19 13:32

|              | MB Result | <u>MB Qualifier</u> | MB MDL | MB RDL |
|--------------|-----------|---------------------|--------|--------|
| Analyte      | %         |                     | %      | %      |
| Total Solids | 0.00100   |                     |        |        |

L1142081-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1142081-24 09/27/19 13:32 • (DUP) R3455474-3 09/27/19 13:32

|              | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte      | %               | %          |          | %       |                      | %              |
| Total Solids | 90.9            | 89.9       | 1        | 1.08    |                      | 10             |

Laboratory Control Sample (LCS)

(LCS) R3455474-2 09/27/19 13:32

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

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011 [L1142081-27](#)

Method Blank (MB)

(MB) R3455995-1 09/30/19 07:58

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

L1142087-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1142087-06 09/30/19 07:58 • (DUP) R3455995-3 09/30/19 07:58

| Analyte      | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|---------------|----------------|
|              | %               | %          |          | %       |               | %              |
| Total Solids | 93.6            | 93.8       | 1        | 0.173   |               | 10             |

Laboratory Control Sample (LCS)

(LCS) R3455995-2 09/30/19 07:58

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

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 300.0

[L1142081-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20](#)

Method Blank (MB)

(MB) R3454081-1 09/24/19 09:37

| Analyte  | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|----------|--------------------|--------------|-----------------|-----------------|
| Chloride | 4.18               | <u>J</u>     | 0.795           | 10.0            |

L1142081-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1142081-01 09/24/19 10:06 • (DUP) R3454081-3 09/24/19 10:15

| Analyte  | Original Result<br>(dry)<br>mg/kg | DUP Result<br>(dry)<br>mg/kg | Dilution | DUP RPD<br>% | DUP Qualifier | DUP RPD<br>Limits<br>% |
|----------|-----------------------------------|------------------------------|----------|--------------|---------------|------------------------|
| Chloride | 110                               | 112                          | 1        | 1.90         |               | 20                     |

L1142081-19 Original Sample (OS) • Duplicate (DUP)

(OS) L1142081-19 09/24/19 14:13 • (DUP) R3454081-6 09/24/19 14:22

| Analyte  | Original Result<br>(dry)<br>mg/kg | DUP Result<br>(dry)<br>mg/kg | Dilution | DUP RPD<br>% | DUP Qualifier | DUP RPD<br>Limits<br>% |
|----------|-----------------------------------|------------------------------|----------|--------------|---------------|------------------------|
| Chloride | 2400                              | 2290                         | 10       | 4.54         |               | 20                     |

Laboratory Control Sample (LCS)

(LCS) R3454081-2 09/24/19 09:47

| Analyte  | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|----------|-----------------------|---------------------|---------------|------------------|---------------|
| Chloride | 200                   | 204                 | 102           | 90.0-110         |               |

L1142081-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1142081-15 09/24/19 12:47 • (MS) R3454081-4 09/24/19 12:57 • (MSD) R3454081-5 09/24/19 13:06

| Analyte  | Spike Amount<br>(dry)<br>mg/kg | Original Result<br>(dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result<br>(dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------|--------------------------------|-----------------------------------|--------------------------|------------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Chloride | 522                            | 1070                              | 1510                     | 1490                         | 84.4         | 80.6          | 1        | 80.0-120         | <u>E</u>     | <u>E</u>      | 1.33     | 20              |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Wet Chemistry by Method 300.0

[L1142081-21,22,23](#)

Method Blank (MB)

(MB) R3453792-1 09/23/19 19:04

|          | MB Result | MB Qualifier                                                                      | MB MDL | MB RDL |
|----------|-----------|-----------------------------------------------------------------------------------|--------|--------|
| Analyte  | mg/kg     |                                                                                   | mg/kg  | mg/kg  |
| Chloride | 3.51      |  | 0.795  | 10.0   |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1141708-19 Original Sample (OS) • Duplicate (DUP)

(OS) L1141708-19 09/23/19 20:16 • (DUP) R3453792-3 09/23/19 20:25

|          | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte  | mg/kg           | mg/kg      |          | %       |               | %              |
| Chloride | 88.0            | 97.0       | 1        | 9.74    |               | 20             |

L1141896-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1141896-04 09/23/19 22:48 • (DUP) R3453792-6 09/23/19 22:58

|          | Original Result (dry) | DUP Result (dry) | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------------|------------------|----------|---------|---------------|----------------|
| Analyte  | mg/kg                 | mg/kg            |          | %       |               | %              |
| Chloride | 2760                  | 2750             | 10       | 0.521   |               | 20             |

Laboratory Control Sample (LCS)

(LCS) R3453792-2 09/23/19 19:13

|          | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------|--------------|------------|----------|-------------|---------------|
| Analyte  | mg/kg        | mg/kg      | %        | %           |               |
| Chloride | 200          | 216        | 108      | 90.0-110    |               |

L1141779-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1141779-13 09/23/19 20:44 • (MS) R3453792-4 09/23/19 20:54 • (MSD) R3453792-5 09/23/19 21:03

|          | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD  | RPD Limits |
|----------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Analyte  | mg/kg        | mg/kg           | mg/kg     | mg/kg      | %       | %        |          | %           |              |               | %    | %          |
| Chloride | 500          | 8.47            | 555       | 526        | 109     | 103      | 1        | 80.0-120    |              |               | 5.42 | 20         |

Wet Chemistry by Method 300.0

L1142081-24,25,26,27

Method Blank (MB)

(MB) R3454194-1 09/24/19 19:08

| Analyte  | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|----------|--------------------|--------------|-----------------|-----------------|
| Chloride | 3.02               | ⬇            | 0.795           | 10.0            |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1142081-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1142081-24 09/24/19 19:52 • (DUP) R3454194-3 09/24/19 20:00

| Analyte  | Original Result<br>(dry)<br>mg/kg | DUP Result<br>(dry)<br>mg/kg | Dilution | DUP RPD<br>% | DUP Qualifier | DUP RPD<br>Limits<br>% |
|----------|-----------------------------------|------------------------------|----------|--------------|---------------|------------------------|
| Chloride | 14.6                              | 14.1                         | 1        | 2.92         |               | 20                     |

L1142087-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1142087-16 09/24/19 23:59 • (DUP) R3454194-6 09/25/19 00:08

| Analyte  | Original Result<br>mg/kg | DUP Result<br>mg/kg | Dilution | DUP RPD<br>% | DUP Qualifier | DUP RPD<br>Limits<br>% |
|----------|--------------------------|---------------------|----------|--------------|---------------|------------------------|
| Chloride | 69.7                     | 69.5                | 1        | 0.292        |               | 20                     |

Laboratory Control Sample (LCS)

(LCS) R3454194-2 09/24/19 19:17

| Analyte  | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|----------|-----------------------|---------------------|---------------|------------------|---------------|
| Chloride | 200                   | 218                 | 109           | 90.0-110         |               |

L1142087-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1142087-05 09/24/19 21:36 • (MS) R3454194-4 09/24/19 21:45 • (MSD) R3454194-5 09/24/19 21:55

| Analyte  | Spike Amount<br>mg/kg | Original Result<br>mg/kg | MS Result<br>mg/kg | MSD Result<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Chloride | 500                   | 25.4                     | 554                | 549                 | 106          | 105           | 1        | 80.0-120         |              |               | 0.987    | 20              |



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

[L1142081-01,02,03,04,05,06,07,08,10,11,15,16,17,18,19,20](#)

Method Blank (MB)

(MB) R3455935-1 09/27/19 12:31

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| TPH (GC/FID) Low Fraction          | 0.0466             | J            | 0.0217          | 0.100           |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 93.4               |              |                 | 77.0-120        |

Laboratory Control Sample (LCS)

(LCS) R3455935-2 09/27/19 14:22

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| TPH (GC/FID) Low Fraction          | 5.50                  | 5.16                | 93.8          | 72.0-127         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     | 104           | 77.0-120         |               |

L1142081-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1142081-10 09/27/19 21:36 • (MS) R3455935-3 09/28/19 09:47 • (MSD) R3455935-4 09/28/19 10:07

| Analyte                            | Spike Amount<br>(dry)<br>mg/kg | Original Result<br>(dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result<br>(dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|--------------------------------|-----------------------------------|--------------------------|------------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| TPH (GC/FID) Low Fraction          | 5.84                           | U                                 | 2.06                     | 1.46                         | 35.2         | 25.0          | 1        | 10.0-151         |              | J3            | 33.9     | 28              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                                |                                   |                          |                              | 88.2         | 88.2          |          | 77.0-120         |              |               |          |                 |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

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

[L1142081-27](#)

Method Blank (MB)

(MB) R3455677-2 09/28/19 03:44

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| TPH (GC/FID) Low Fraction          | U                  |              | 0.0217          | 0.100           |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 104                |              |                 | 77.0-120        |

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

(LCS) R3455677-1 09/28/19 03:03 • (LCSD) R3455677-5 09/28/19 11:56

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| TPH (GC/FID) Low Fraction          | 5.50                  | 6.36                | 6.10                 | 116           | 111            | 72.0-127         |               |                | 4.14     | 20              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     |                      | 111           | 110            | 77.0-120         |               |                |          |                 |

L1142072-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1142072-06 09/28/19 07:50 • (MS) R3455677-3 09/28/19 11:15 • (MSD) R3455677-4 09/28/19 11:35

| Analyte                            | Spike Amount<br>mg/kg | Original Result<br>mg/kg | MS Result<br>mg/kg | MSD Result<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| TPH (GC/FID) Low Fraction          | 5.50                  | ND                       | 116                | 121                 | 84.1         | 87.7          | 25       | 10.0-151         |              |               | 4.20     | 28              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                          |                    |                     | 107          | 107           |          | 77.0-120         |              |               |          |                 |

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Method Blank (MB)

(MB) R3455560-3 09/27/19 14:45

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| TPH (GC/FID) Low Fraction          | U                  |              | 0.0217          | 0.100           |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 103                |              |                 | 77.0-120        |

Laboratory Control Sample (LCS)

(LCS) R3455560-2 09/27/19 14:04

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| TPH (GC/FID) Low Fraction          | 5.50                  | 6.01                | 109           | 72.0-127         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     | 109           | 77.0-120         |               |

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

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

[L1142081-09,12,13,14](#)

Method Blank (MB)

(MB) R3456148-3 09/30/19 10:57

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| TPH (GC/FID) Low Fraction          | 0.0289             | ⬇            | 0.0217          | 0.100           |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 94.1               |              |                 | 77.0-120        |

Laboratory Control Sample (LCS)

(LCS) R3456148-2 09/30/19 10:16

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| TPH (GC/FID) Low Fraction          | 5.50                  | 4.81                | 87.5          | 72.0-127         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     | 99.1          | 77.0-120         |               |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3454858-3 09/26/19 07:41

| Analyte                   | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|---------------------------|--------------------|--------------|-----------------|-----------------|
| Benzene                   | U                  |              | 0.000400        | 0.00100         |
| Ethylbenzene              | U                  |              | 0.000530        | 0.00250         |
| Toluene                   | U                  |              | 0.00125         | 0.00500         |
| Xylenes, Total            | U                  |              | 0.00478         | 0.00650         |
| (S) Toluene-d8            | 113                |              |                 | 75.0-131        |
| (S) 4-Bromofluorobenzene  | 110                |              |                 | 67.0-138        |
| (S) 1,2-Dichloroethane-d4 | 94.9               |              |                 | 70.0-130        |

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

(LCS) R3454858-1 09/26/19 06:18 • (LCSD) R3454858-2 09/26/19 06:39

| Analyte                   | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Benzene                   | 0.125                 | 0.0929              | 0.0884               | 74.3          | 70.7           | 70.0-123         |               |                | 4.93     | 20              |
| Ethylbenzene              | 0.125                 | 0.117               | 0.108                | 93.6          | 86.8           | 74.0-126         |               |                | 7.56     | 20              |
| Toluene                   | 0.125                 | 0.115               | 0.110                | 91.7          | 88.0           | 75.0-121         |               |                | 4.10     | 20              |
| Xylenes, Total            | 0.375                 | 0.310               | 0.314                | 82.7          | 83.7           | 72.0-127         |               |                | 1.28     | 20              |
| (S) Toluene-d8            |                       |                     |                      | 112           | 110            | 75.0-131         |               |                |          |                 |
| (S) 4-Bromofluorobenzene  |                       |                     |                      | 106           | 107            | 67.0-138         |               |                |          |                 |
| (S) 1,2-Dichloroethane-d4 |                       |                     |                      | 96.0          | 97.4           | 70.0-130         |               |                |          |                 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

L1142081-18,19,20,21,22,23,24,25,26,27

Method Blank (MB)

(MB) R3455303-2 09/26/19 20:44

| Analyte                   | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|---------------------------|--------------------|--------------|-----------------|-----------------|
| Benzene                   | U                  |              | 0.000400        | 0.00100         |
| Ethylbenzene              | U                  |              | 0.000530        | 0.00250         |
| Toluene                   | U                  |              | 0.00125         | 0.00500         |
| Xylenes, Total            | U                  |              | 0.00478         | 0.00650         |
| (S) Toluene-d8            | 117                |              |                 | 75.0-131        |
| (S) 4-Bromofluorobenzene  | 105                |              |                 | 67.0-138        |
| (S) 1,2-Dichloroethane-d4 | 108                |              |                 | 70.0-130        |

Laboratory Control Sample (LCS)

(LCS) R3455303-1 09/26/19 19:43

| Analyte                   | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|---------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Benzene                   | 0.125                 | 0.0989              | 79.2          | 70.0-123         |               |
| Ethylbenzene              | 0.125                 | 0.112               | 90.0          | 74.0-126         |               |
| Toluene                   | 0.125                 | 0.118               | 94.2          | 75.0-121         |               |
| Xylenes, Total            | 0.375                 | 0.319               | 85.1          | 72.0-127         |               |
| (S) Toluene-d8            |                       |                     | 109           | 75.0-131         |               |
| (S) 4-Bromofluorobenzene  |                       |                     | 104           | 67.0-138         |               |
| (S) 1,2-Dichloroethane-d4 |                       |                     | 113           | 70.0-130         |               |

L1142081-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1142081-18 09/26/19 21:04 • (MS) R3455303-3 09/27/19 05:14 • (MSD) R3455303-4 09/27/19 05:35

| Analyte                   | Spike Amount<br>(dry)<br>mg/kg | Original Result<br>(dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result<br>(dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------------------------|--------------------------------|-----------------------------------|--------------------------|------------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Benzene                   | 0.132                          | U                                 | 0.0805                   | 0.0939                       | 61.2         | 71.4          | 1        | 10.0-149         |              |               | 15.3     | 37              |
| Ethylbenzene              | 0.132                          | U                                 | 0.103                    | 0.125                        | 78.7         | 94.9          | 1        | 10.0-160         |              |               | 18.7     | 38              |
| Toluene                   | 0.132                          | U                                 | 0.103                    | 0.119                        | 78.5         | 90.3          | 1        | 10.0-156         |              |               | 14.0     | 38              |
| Xylenes, Total            | 0.395                          | U                                 | 0.281                    | 0.310                        | 71.2         | 78.7          | 1        | 10.0-160         |              |               | 9.96     | 38              |
| (S) Toluene-d8            |                                |                                   |                          |                              | 113          | 115           |          | 75.0-131         |              |               |          |                 |
| (S) 4-Bromofluorobenzene  |                                |                                   |                          |                              | 104          | 102           |          | 67.0-138         |              |               |          |                 |
| (S) 1,2-Dichloroethane-d4 |                                |                                   |                          |                              | 95.0         | 99.6          |          | 70.0-130         |              |               |          |                 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3455688-2 09/28/19 10:56

| Analyte                   | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|---------------------------|--------------------|--------------|-----------------|-----------------|
| Benzene                   | U                  |              | 0.000400        | 0.00100         |
| Ethylbenzene              | U                  |              | 0.000530        | 0.00250         |
| Toluene                   | U                  |              | 0.00125         | 0.00500         |
| Xylenes, Total            | U                  |              | 0.00478         | 0.00650         |
| (S) Toluene-d8            | 114                |              |                 | 75.0-131        |
| (S) 4-Bromofluorobenzene  | 105                |              |                 | 67.0-138        |
| (S) 1,2-Dichloroethane-d4 | 94.4               |              |                 | 70.0-130        |

Laboratory Control Sample (LCS)

(LCS) R3455688-1 09/28/19 09:54

| Analyte                   | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|---------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Benzene                   | 0.125                 | 0.0979              | 78.3          | 70.0-123         |               |
| Ethylbenzene              | 0.125                 | 0.126               | 101           | 74.0-126         |               |
| Toluene                   | 0.125                 | 0.120               | 95.8          | 75.0-121         |               |
| Xylenes, Total            | 0.375                 | 0.354               | 94.4          | 72.0-127         |               |
| (S) Toluene-d8            |                       |                     | 113           | 75.0-131         |               |
| (S) 4-Bromofluorobenzene  |                       |                     | 105           | 67.0-138         |               |
| (S) 1,2-Dichloroethane-d4 |                       |                     | 101           | 70.0-130         |               |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



QUALITY CONTROL SUMMARY

[L1142081-14,15,16,17,18,19,20,21,23,24,25,26,27](#)

Method Blank (MB)

(MB) R3455190-1 09/26/19 21:29

| Analyte              | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|----------------------|--------------------|--------------|-----------------|-----------------|
| C10-C28 Diesel Range | U                  |              | 1.61            | 4.00            |
| C28-C40 Oil Range    | U                  |              | 0.274           | 4.00            |
| (S) o-Terphenyl      | 73.7               |              |                 | 18.0-148        |

Laboratory Control Sample (LCS)

(LCS) R3455190-2 09/26/19 21:41

| Analyte              | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|----------------------|-----------------------|---------------------|---------------|------------------|---------------|
| C10-C28 Diesel Range | 50.0                  | 40.3                | 80.6          | 50.0-150         |               |
| (S) o-Terphenyl      |                       |                     | 78.5          | 18.0-148         |               |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

L1142081-01,02,03,04,05,06,07,08,09,10,11,12,13,22

Method Blank (MB)

(MB) R3455615-1 09/29/19 00:21

| Analyte              | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|----------------------|--------------------|--------------|-----------------|-----------------|
| C10-C28 Diesel Range | U                  |              | 1.61            | 4.00            |
| C28-C40 Oil Range    | U                  |              | 0.274           | 4.00            |
| (S) o-Terphenyl      | 90.7               |              |                 | 18.0-148        |

Laboratory Control Sample (LCS)

(LCS) R3455615-2 09/29/19 00:34

| Analyte              | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|----------------------|-----------------------|---------------------|---------------|------------------|---------------|
| C10-C28 Diesel Range | 50.0                  | 42.1                | 84.2          | 50.0-150         |               |
| (S) o-Terphenyl      |                       |                     | 81.8          | 18.0-148         |               |

L1142081-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1142081-01 09/29/19 00:46 • (MS) R3455615-3 09/29/19 00:59 • (MSD) R3455615-4 09/29/19 01:11

| Analyte              | Spike Amount<br>(dry)<br>mg/kg | Original Result<br>(dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result<br>(dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------------------|--------------------------------|-----------------------------------|--------------------------|------------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| C10-C28 Diesel Range | 52.4                           | 4.75                              | 36.4                     | 43.8                         | 60.3         | 74.8          | 1        | 50.0-150         |              |               | 18.6     | 20              |
| (S) o-Terphenyl      |                                |                                   |                          |                              | 49.2         | 57.5          |          | 18.0-148         |              |               |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Guide to Reading and Understanding Your Laboratory Report

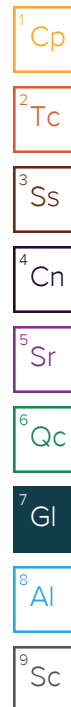
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

## Abbreviations and Definitions

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

| Qualifier | Description                                                                                                                                 |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------|
| B         | The same analyte is found in the associated blank.                                                                                          |
| E         | The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL). |
| J         | The identification of the analyte is acceptable; the reported value is an estimate.                                                         |
| J3        | The associated batch QC was outside the established quality control range for precision.                                                    |



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

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

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

## State Accreditations

|                         |             |                             |                  |
|-------------------------|-------------|-----------------------------|------------------|
| Alabama                 | 40660       | Nebraska                    | NE-OS-15-05      |
| Alaska                  | 17-026      | Nevada                      | TN-03-2002-34    |
| Arizona                 | AZ0612      | New Hampshire               | 2975             |
| Arkansas                | 88-0469     | New Jersey-NELAP            | TN002            |
| California              | 2932        | New Mexico <sup>1</sup>     | n/a              |
| Colorado                | TN00003     | New York                    | 11742            |
| Connecticut             | PH-0197     | North Carolina              | Env375           |
| Florida                 | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                 | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>    | 923         | North Dakota                | R-140            |
| Idaho                   | TN00003     | Ohio-VAP                    | CL0069           |
| Illinois                | 200008      | Oklahoma                    | 9915             |
| Indiana                 | C-TN-01     | Oregon                      | TN200002         |
| Iowa                    | 364         | Pennsylvania                | 68-02979         |
| Kansas                  | E-10277     | Rhode Island                | LA000356         |
| Kentucky <sup>1 6</sup> | 90010       | South Carolina              | 84004            |
| Kentucky <sup>2</sup>   | 16          | South Dakota                | n/a              |
| Louisiana               | AI30792     | Tennessee <sup>1 4</sup>    | 2006             |
| Louisiana <sup>1</sup>  | LA180010    | Texas                       | T104704245-18-15 |
| Maine                   | TN0002      | Texas <sup>5</sup>          | LAB0152          |
| Maryland                | 324         | Utah                        | TN00003          |
| Massachusetts           | M-TN003     | Vermont                     | VT2006           |
| Michigan                | 9958        | Virginia                    | 460132           |
| Minnesota               | 047-999-395 | Washington                  | C847             |
| Mississippi             | TN00003     | West Virginia               | 233              |
| Missouri                | 340         | Wisconsin                   | 9980939910       |
| Montana                 | CERT0086    | Wyoming                     | A2LA             |

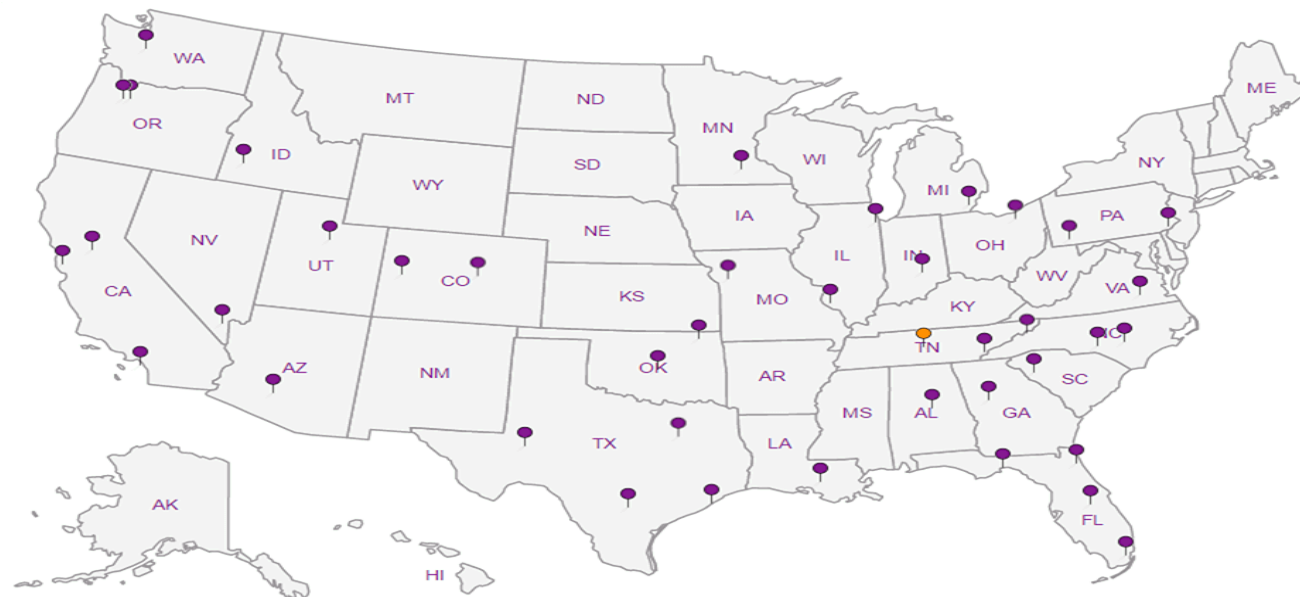
## Third Party Federal Accreditations

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

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.





## Analysis Request of Chain of Custody Record

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|                                                                                                                                                              |                              |                                                                                                     |                               |                                                                 |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|  <b>Tetra Tech, Inc.</b>                                                    |                              | 901 West Wall Street, Suite 100<br>Midland, Texas 79701<br>Tel (432) 682-4559<br>Fax (432) 682-3946 |                               | <b>B247</b>                                                     |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |
| Client Name: Conoco Phillips                                                                                                                                 |                              | Site Manager: Chrisian Llull                                                                        |                               | <b>ANALYSIS REQUEST</b><br>(Circle or Specify Method No.)       |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |
| Project Name: COP VGEU 19-01                                                                                                                                 |                              |                                                                                                     |                               |                                                                 |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |
| Project Location: Lea County, New Mexico                                                                                                                     |                              | Project #: 212C-MD-01840                                                                            |                               |                                                                 |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |
| Invoice to: Accounts Payable<br>901 West Wall Street, Suite 100 Midland, Texas 79701                                                                         |                              |                                                                                                     |                               |                                                                 |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |
| Receiving Laboratory: Pace Analytical                                                                                                                        |                              | Sampler Signature: <i>[Signature]</i>                                                               |                               |                                                                 |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |
| Comments: Run deeper samples if GRO+DRO exceeds 100 mg/kg or if benzene exceeds 10 mg/kg or if total BTEX exceeds 50 mg/kg or if chlorides exceed 600 mg/kg. |                              |                                                                                                     |                               |                                                                 |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |
| <b>COP TETRA Acctnum</b>                                                                                                                                     |                              |                                                                                                     |                               |                                                                 |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |
| <b>LAB #</b><br>(LAB USE ONLY)                                                                                                                               | <b>SAMPLE IDENTIFICATION</b> | <b>SAMPLING</b><br>YEAR: 2019<br>DATE      TIME                                                     | <b>MATRIX</b><br>WATER   SOIL | <b>PRESERVATIVE METHOD</b><br>HCL   HNO <sub>3</sub> ICE   NONE | <b># CONTAINERS</b><br>FILTERED (Y/N) | BTEX 8021B   BTEX 8260B<br>TPH TX1005 (Ext to C35)<br>TPH 8015M (GRO - DRO - ORO - MRO)<br>PAH 8270C<br>Total Metals Ag As Ba Cd Cr Pb Se Hg<br>TCLP Metals Ag As Ba Cd Cr Pb Se Hg<br>TCLP Volatiles<br>TCLP Semi Volatiles<br>RCI<br>GC/MS Vol. 8260B / 624<br>GC/MS Semi. Vol. 8270C/625<br>PCB's 8082 / 608<br>NORM<br>PLM (Asbestos)<br>Chloride 300.0<br>Chloride Sulfate TDS<br>General Water Chemistry (see attached list)<br>Anion/Cation Balance<br>TPH 8015R | <b>HOLD</b> |
| -01                                                                                                                                                          | BH-1 (0'- 1')                | 9/16/2019      1000                                                                                 | X                             | X                                                               | 1   N                                 | X   X                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |
| 02                                                                                                                                                           | BH-1 (2'- 3')                | 9/16/2019      1005                                                                                 | X                             | X                                                               | 1   N                                 | X   X                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |
| 03                                                                                                                                                           | BH-1 (4'- 5')                | 9/16/2019      1010                                                                                 | X                             | X                                                               | 1   N                                 | X   X                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |
|                                                                                                                                                              | BH-1 (6'- 7')                | 9/16/2019      1020                                                                                 | X                             | X                                                               | 1   N                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | X           |
| 04                                                                                                                                                           | BH-2 (0'- 1')                | 9/16/2019      1030                                                                                 | X                             | X                                                               | 1   N                                 | X   X                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X           |
| 05                                                                                                                                                           | BH-2 (2'- 3')                | 9/16/2019      1035                                                                                 | X                             | X                                                               | 1   N                                 | X   X                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X           |
| 06                                                                                                                                                           | BH-2 (4'- 5')                | 9/16/2019      1040                                                                                 | X                             | X                                                               | 1   N                                 | X   X                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X           |
| 07                                                                                                                                                           | BH-3 (0'- 1')                | 9/16/2019      1050                                                                                 | X                             | X                                                               | 1   N                                 | X   X                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X           |
| 08                                                                                                                                                           | BH-3 (2'- 3')                | 9/16/2019      1055                                                                                 | X                             | X                                                               | 1   N                                 | X   X                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X           |
| 09                                                                                                                                                           | BH-3 (4'- 5')                | 9/16/2019      1100                                                                                 | X                             | X                                                               | 1   N                                 | X   X                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X           |
| Relinquished by: <i>[Signature]</i>                                                                                                                          |                              | Date: 9-20-19      Time: 13:00                                                                      |                               | Received by: <i>[Signature]</i>                                 |                                       | Date: 9-20-19      Time: 13:00                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |
| Relinquished by: <i>[Signature]</i>                                                                                                                          |                              | Date: 9-20-19      Time: 15:30                                                                      |                               | Received by: <i>[Signature]</i>                                 |                                       | Date: 9-20-19      Time: 15:30                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |
| Relinquished by: <i>[Signature]</i>                                                                                                                          |                              | Date: 9/21/19      Time: 8:30                                                                       |                               | Received by: <i>[Signature]</i>                                 |                                       | Date: 9/21/19      Time: 8:30                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |
|                                                                                                                                                              |                              |                                                                                                     |                               | <b>LAB USE ONLY</b>                                             |                                       | <b>REMARKS:</b><br><input checked="" type="checkbox"/> STANDARD<br><input type="checkbox"/> RUSH: Same Day   24 hr   48 hr   72 hr<br><input type="checkbox"/> Rush Charges Authorized<br><input type="checkbox"/> Special Report Limits or TRRP Report                                                                                                                                                                                                                 |             |
|                                                                                                                                                              |                              |                                                                                                     |                               | Sample Temperature                                              |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |
|                                                                                                                                                              |                              |                                                                                                     |                               | 30+0-3-12                                                       |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |
| (Circle) HAND DELIVERED   FEDEX   UPS   Tracking #: _____                                                                                                    |                              |                                                                                                     |                               |                                                                 |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |

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## Analysis Request of Chain of Custody Record

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|                                                                                                                                                              |                              |                               |      |                                                                                                     |      |                            |                  |                                                                |                       |                                                                                                                                                                                                                                                               |      |            |            |                         |                                     |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                  |     |                                             |                      |           |      |  |   |   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------|------|-----------------------------------------------------------------------------------------------------|------|----------------------------|------------------|----------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|------------|-------------------------|-------------------------------------|-----------|--------------------------------------|-------------------------------------|----------------|---------------------|-----|------------------------|----------------------------|------------------|------|----------------|----------------|------------------|-----|---------------------------------------------|----------------------|-----------|------|--|---|---|
| <b style="font-size: 24px;">Tetra Tech, Inc.</b>                                                                                                             |                              |                               |      | 901 West Wall Street, Suite 100<br>Midland, Texas 79701<br>Tel (432) 682-4559<br>Fax (432) 682-3946 |      |                            |                  |                                                                |                       |                                                                                                                                                                                                                                                               |      |            |            |                         |                                     |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                  |     |                                             |                      |           |      |  |   |   |
| Client Name: Conoco Phillips                                                                                                                                 |                              |                               |      | Site Manager: Chrisian Llull                                                                        |      |                            |                  |                                                                |                       |                                                                                                                                                                                                                                                               |      |            |            |                         |                                     |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                  |     |                                             |                      |           |      |  |   |   |
| Project Name: COP VGEU 19-01                                                                                                                                 |                              |                               |      |                                                                                                     |      |                            |                  |                                                                |                       |                                                                                                                                                                                                                                                               |      |            |            |                         |                                     |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                  |     |                                             |                      |           |      |  |   |   |
| Project Location: Lea County, New Mexico                                                                                                                     |                              |                               |      | Project #: 212C-MD-01840                                                                            |      |                            |                  |                                                                |                       |                                                                                                                                                                                                                                                               |      |            |            |                         |                                     |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                  |     |                                             |                      |           |      |  |   |   |
| Invoice to: Accounts Payable<br>901 West Wall Street, Suite 100 Midland, Texas 79701                                                                         |                              |                               |      |                                                                                                     |      |                            |                  |                                                                |                       |                                                                                                                                                                                                                                                               |      |            |            |                         |                                     |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                  |     |                                             |                      |           |      |  |   |   |
| Receiving Laboratory: Pace Analytical                                                                                                                        |                              |                               |      | Sampler Signature: <i>[Signature]</i>                                                               |      |                            |                  |                                                                |                       |                                                                                                                                                                                                                                                               |      |            |            |                         |                                     |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                  |     |                                             |                      |           |      |  |   |   |
| Comments: Run deeper samples if GRO+DRO exceeds 100 mg/kg or if benzene exceeds 10 mg/kg or if total BTEX exceeds 50 mg/kg or if chlorides exceed 600 mg/kg. |                              |                               |      |                                                                                                     |      |                            |                  |                                                                |                       |                                                                                                                                                                                                                                                               |      |            |            |                         |                                     |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                  |     |                                             |                      |           |      |  |   |   |
| <b>COPTETRA Acctnum</b>                                                                                                                                      |                              |                               |      |                                                                                                     |      |                            |                  |                                                                |                       |                                                                                                                                                                                                                                                               |      |            |            |                         |                                     |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                  |     |                                             |                      |           |      |  |   |   |
| <b>LAB #</b><br><br>( LAB USE ONLY )                                                                                                                         | <b>SAMPLE IDENTIFICATION</b> | <b>SAMPLING</b><br>YEAR: 2019 |      | <b>MATRIX</b>                                                                                       |      | <b>PRESERVATIVE METHOD</b> |                  | <b># CONTAINERS</b>                                            | <b>FILTERED (Y/N)</b> | <b>ANALYSIS REQUEST</b><br><b>(Circle or Specify Method No.)</b>                                                                                                                                                                                              |      |            |            |                         |                                     |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                  |     |                                             |                      |           |      |  |   |   |
|                                                                                                                                                              |                              | DATE                          | TIME | WATER                                                                                               | SOIL | HCL                        | HNO <sub>3</sub> |                                                                |                       | ICE                                                                                                                                                                                                                                                           | NONE | BTEX 8021B | BTEX 8260B | TPH TX1005 (Ext to C35) | TPH 8015M ( GRO - DRO - ORO - MRO ) | PAH 8270C | Total Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC/MS Vol. 8260B / 624 | GC/MS Semi. Vol. 8270C/625 | PCB's 8082 / 608 | NORM | PLM (Asbestos) | Chloride 300.0 | Chloride Sulfate | TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | TPH 8015R | HOLD |  |   |   |
| 10                                                                                                                                                           | BH-4 (0'- 1')                | 9/16/2019                     | 1120 | X                                                                                                   |      |                            | X                |                                                                | 1                     | N                                                                                                                                                                                                                                                             | X    | X          |            |                         |                                     |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                  |     |                                             |                      |           |      |  |   |   |
| 11                                                                                                                                                           | BH-4 (2'- 3')                | 9/16/2019                     | 1125 | X                                                                                                   |      |                            | X                |                                                                | 1                     | N                                                                                                                                                                                                                                                             | X    | X          |            |                         |                                     |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                  |     |                                             |                      |           |      |  |   |   |
| 12                                                                                                                                                           | BH-4 (4'- 5')                | 9/16/2019                     | 1130 | X                                                                                                   |      |                            | X                |                                                                | 1                     | N                                                                                                                                                                                                                                                             | X    | X          |            |                         |                                     |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                  |     |                                             |                      |           |      |  |   |   |
| 13                                                                                                                                                           | BH-5 (0'- 1')                | 9/16/2019                     | 1145 | X                                                                                                   |      |                            | X                |                                                                | 1                     | N                                                                                                                                                                                                                                                             | X    | X          |            |                         |                                     |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                  |     |                                             |                      |           |      |  |   |   |
| 14                                                                                                                                                           | BH-5 (2'- 3')                | 9/16/2019                     | 1150 | X                                                                                                   |      |                            | X                |                                                                | 1                     | N                                                                                                                                                                                                                                                             | X    | X          |            |                         |                                     |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                  |     |                                             |                      |           |      |  |   |   |
| 15                                                                                                                                                           | BH-5 (4'- 5')                | 9/16/2019                     | 1155 | X                                                                                                   |      |                            | X                |                                                                | 1                     | N                                                                                                                                                                                                                                                             | X    | X          |            |                         |                                     |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                  |     |                                             |                      |           |      |  |   |   |
|                                                                                                                                                              | BH-5 (6'- 7')                | 9/16/2019                     | 1200 | X                                                                                                   |      |                            | X                |                                                                | 1                     | N                                                                                                                                                                                                                                                             |      |            |            |                         |                                     |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                  |     |                                             |                      |           |      |  |   | X |
|                                                                                                                                                              | BH-5 (9'- 10')               | 9/16/2019                     | 1210 | X                                                                                                   |      |                            | X                |                                                                | 1                     | N                                                                                                                                                                                                                                                             |      |            |            |                         |                                     |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                  |     |                                             |                      |           |      |  |   | X |
|                                                                                                                                                              | BH-5 (14'- 15')              | 9/16/2019                     | 1225 | X                                                                                                   |      |                            | X                |                                                                | 1                     | N                                                                                                                                                                                                                                                             |      |            |            |                         |                                     |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                  |     |                                             |                      |           |      |  |   | X |
|                                                                                                                                                              | BH-5 (19'- 20')              | 9/16/2019                     | 1240 | X                                                                                                   |      |                            | X                |                                                                | 1                     | N                                                                                                                                                                                                                                                             |      |            |            |                         |                                     |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                  |     |                                             |                      |           |      |  | X |   |
| Relinquished by: <i>[Signature]</i>                                                                                                                          |                              | Date: 9-20-19 Time: 13:00     |      | Received by: <i>[Signature]</i>                                                                     |      | Date: 9-20-19 Time: 13:00  |                  | <b>LAB USE ONLY</b><br><br>Sample Temperature<br><br>34.0-37.2 |                       | <b>REMARKS:</b><br><input checked="" type="checkbox"/> STANDARD<br><br><input type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr<br><br><input type="checkbox"/> Rush Charges Authorized<br><br><input type="checkbox"/> Special Report Limits or TRRP Report |      |            |            |                         |                                     |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                  |     |                                             |                      |           |      |  |   |   |
| Relinquished by: <i>[Signature]</i>                                                                                                                          |                              | Date: 9-20-19 Time: 15:30     |      | Received by: <i>[Signature]</i>                                                                     |      | Date: 9-20-19 Time: 15:30  |                  |                                                                |                       |                                                                                                                                                                                                                                                               |      |            |            |                         |                                     |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                  |     |                                             |                      |           |      |  |   |   |
| Relinquished by: <i>[Signature]</i>                                                                                                                          |                              | Date: 9-20-19 Time: 8:50      |      | Received by: <i>[Signature]</i>                                                                     |      | Date: 9-20-19 Time: 8:50   |                  |                                                                |                       |                                                                                                                                                                                                                                                               |      |            |            |                         |                                     |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                  |     |                                             |                      |           |      |  |   |   |

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## Analysis Request of Chain of Custody Record

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**Tetra Tech, Inc.**
 901 West Wall Street, Suite 100  
 Midland, Texas 79701  
 Tel (432) 682-4559  
 Fax (432) 682-3946

|                                      |                                                                          |                    |                    |
|--------------------------------------|--------------------------------------------------------------------------|--------------------|--------------------|
| Client Name:                         | Conoco Phillips                                                          | Site Manager:      | Chrisian Lull      |
| Project Name:                        | COP VGEU 19-01                                                           |                    |                    |
| Project Location:<br>(county, state) | Lea County, New Mexico                                                   | Project #:         | 212C-MD-01840      |
| Invoice to:                          | Accounts Payable<br>901 West Wall Street, Suite 100 Midland, Texas 79701 |                    |                    |
| Receiving Laboratory:                | Pace Analytical                                                          | Sampler Signature: | <i>[Signature]</i> |

Comments: Run deeper samples if GRO+DRO exceeds 100 mg/kg or if benzene exceeds 10 mg/kg or if total BTEX exceeds 50 mg/kg or if chlorides exceed 600 mg/kg.

**COPTETRA Acctnum**

| LAB #<br><br>(LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING   |      | MATRIX |      |  | PRESERVATIVE METHOD |                  |     |      | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B | BTEX 8260B (Ext to C35) | TPH 8015M (GRO - DI) | PAH 8270C | Total Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC/MS Vol. 8260B / 624 | GC/MS Semi. Vol. 8270C/625 | PCB's 8082 / 608 | NORM | PLM (Asbestos) | Chloride 300.0 | Chloride Sulfate TDS | General Water Chemistry | Anion/Cation Balance | TPH 8015R | HOLD |  |   |
|-----------------------------|-----------------------|------------|------|--------|------|--|---------------------|------------------|-----|------|--------------|----------------|------------|-------------------------|----------------------|-----------|--------------------------------------|-------------------------------------|----------------|---------------------|-----|------------------------|----------------------------|------------------|------|----------------|----------------|----------------------|-------------------------|----------------------|-----------|------|--|---|
|                             |                       | YEAR: 2019 |      | WATER  | SOIL |  | HCL                 | HNO <sub>3</sub> | ICE | NONE |              |                |            |                         |                      |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                      |                         |                      |           |      |  |   |
|                             |                       | DATE       | TIME |        |      |  |                     |                  |     |      |              |                |            |                         |                      |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                      |                         |                      |           |      |  |   |
|                             | BH-5 (24'- 25')       | 9/16/2019  | 1255 |        | X    |  |                     |                  | X   |      |              | 1              | N          |                         |                      |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                      |                         |                      |           |      |  | X |
|                             | BH-5 (29'- 30')       | 9/16/2019  | 1310 |        | X    |  |                     |                  | X   |      |              | 1              | N          |                         |                      |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                      |                         |                      |           |      |  | X |
| 16                          | BH-6 (0'- 1')         | 9/16/2019  | 1330 |        | X    |  |                     |                  | X   |      |              | 1              | N          | X                       |                      | X         |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                | X                    |                         |                      |           |      |  |   |
| 17                          | BH-6 (2'- 3')         | 9/16/2019  | 1340 |        | X    |  |                     |                  | X   |      |              | 1              | N          | X                       |                      | X         |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                | X                    |                         |                      |           |      |  |   |
| 18                          | BH-6 (4'- 5')         | 9/16/2019  | 1350 |        | X    |  |                     |                  | X   |      |              | 1              | N          | X                       |                      | X         |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                | X                    |                         |                      |           |      |  |   |
|                             | BH-6 (6'- 7')         | 9/16/2019  | 1400 |        | X    |  |                     |                  | X   |      |              | 1              | N          |                         |                      |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                      |                         |                      |           |      |  | X |
|                             | BH-6 (9'- 10')        | 9/16/2019  | 1410 |        | X    |  |                     |                  | X   |      |              | 1              | N          |                         |                      |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                      |                         |                      |           |      |  | X |
| 19                          | BH-7 (0'- 1')         | 9/16/2019  | 1430 |        | X    |  |                     |                  | X   |      |              | 1              | N          | X                       |                      | X         |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                | X                    |                         |                      |           |      |  |   |
| 20                          | BH-7 (2'- 3')         | 9/16/2019  | 1435 |        | X    |  |                     |                  | X   |      |              | 1              | N          | X                       |                      | X         |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                | X                    |                         |                      |           |      |  |   |
| 21                          | BH-7 (4'- 5')         | 9/16/2019  | 1440 |        | X    |  |                     |                  | X   |      |              | 1              | N          | X                       |                      | X         |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                | X                    |                         |                      |           |      |  |   |

|                    |         |       |                    |         |       |
|--------------------|---------|-------|--------------------|---------|-------|
| Relinquished by:   | Date:   | Time: | Received by:       | Date:   | Time: |
| <i>[Signature]</i> | 9-20-19 | 13:00 | <i>[Signature]</i> | 9-20-19 | 13:00 |
| Relinquished by:   | Date:   | Time: | Received by:       | Date:   | Time: |
| <i>[Signature]</i> | 9-20-19 | 15:30 | SWA                | 9-20    | 15:30 |
| Relinquished by:   | Date:   | Time: | Received by:       | Date:   | Time: |
| <i>[Signature]</i> |         |       | <i>[Signature]</i> | 9/21/19 | 8:30  |

**LAB USE ONLY**

Sample Temperature

310-352

**REMARKS:**☒ STANDARD☐ RUSH: Same Day 24 hr 48 hr 72 hr☐ Rush Charges Authorized☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: \_\_\_\_\_

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### Analysis Request of Chain of Custody Record

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|                                                                                                                                                                                            |                       |                         |                                    |                                                                                      |                                      |                                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |                    |              |                                                                                                                                                                                                                                            |                |   |   |  |  |   |  |                     |            |                         |                                    |                  |                                      |                                     |                |                      |                                             |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| <div><div><div>Tt</div></div><div><div>Tetra Tech, Inc.</div><div>901 West Wall Street, Suite 100<br/>Midland, Texas 79701<br/>Tel (432) 682-4559<br/>Fax (432) 682-3946</div></div></div> |                       |                         |                                    | Page: 4 of 4                                                                         |                                      |                                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |                    |              |                                                                                                                                                                                                                                            |                |   |   |  |  |   |  |                     |            |                         |                                    |                  |                                      |                                     |                |                      |                                             |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Client Name: Conoco Phillips                                                                                                                                                               |                       |                         |                                    | Site Manager: Chrisian Llull                                                         |                                      |                                     |                     | <div>ANALYSIS REQUEST<br/>(Circle or Specify Method No.)</div> <table><tr><td>BTEX 8021B</td><td>BTEX 8260B</td><td>TPH TX1005 (Ext to C35)</td><td>TPH 8015M ( GRO - DRO - ORO - MRO)</td><td>PAH 8270C</td><td>Total Metals Ag As Ba Cd Cr Pb Se Hg</td><td>TCLP Metals Ag As Ba Cd Cr Pb Se Hg</td><td>TCLP Volatiles</td><td>TCLP Semi Volatiles</td><td>RCI</td><td>GC/MS Vol. 8260B / 624</td><td>GC/MS Semi. Vol. 8270C/625</td><td>PCB's 8082 / 608</td><td>NORM</td><td>PLM (Asbestos)</td><td>Chloride 300.0</td><td>Chloride Sulfate TDS</td><td>General Water Chemistry (see attached list)</td><td>Anion/Cation Balance</td><td>TPH 8015R</td><td>HOLD</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> |     |                    |              |                                                                                                                                                                                                                                            |                |   |   |  |  |   |  | BTEX 8021B          | BTEX 8260B | TPH TX1005 (Ext to C35) | TPH 8015M ( GRO - DRO - ORO - MRO) | PAH 8270C        | Total Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles  | RCI                                         | GC/MS Vol. 8260B / 624 | GC/MS Semi. Vol. 8270C/625 | PCB's 8082 / 608 | NORM | PLM (Asbestos) | Chloride 300.0 | Chloride Sulfate TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | TPH 8015R | HOLD |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BTEX 8021B                                                                                                                                                                                 | BTEX 8260B            | TPH TX1005 (Ext to C35) | TPH 8015M ( GRO - DRO - ORO - MRO) | PAH 8270C                                                                            | Total Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |                    |              |                                                                                                                                                                                                                                            |                |   |   |  |  |   |  | TCLP Semi Volatiles | RCI        | GC/MS Vol. 8260B / 624  | GC/MS Semi. Vol. 8270C/625         | PCB's 8082 / 608 | NORM                                 | PLM (Asbestos)                      | Chloride 300.0 | Chloride Sulfate TDS | General Water Chemistry (see attached list) | Anion/Cation Balance   | TPH 8015R                  | HOLD             |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                            |                       |                         |                                    |                                                                                      |                                      |                                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |                    |              |                                                                                                                                                                                                                                            |                |   |   |  |  |   |  |                     |            |                         |                                    |                  |                                      |                                     |                |                      |                                             |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                            |                       |                         |                                    |                                                                                      |                                      |                                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |                    |              |                                                                                                                                                                                                                                            |                |   |   |  |  |   |  |                     |            |                         |                                    |                  |                                      |                                     |                |                      |                                             |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                                                                                                                                                                                            |                       |                         |                                    |                                                                                      |                                      |                                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |                    |              |                                                                                                                                                                                                                                            |                |   |   |  |  |   |  |                     |            |                         |                                    |                  |                                      |                                     |                |                      |                                             |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Project Name: COP VGEU 19-01                                                                                                                                                               |                       |                         |                                    | Project #: 212C-MD-01840                                                             |                                      |                                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |                    |              |                                                                                                                                                                                                                                            |                |   |   |  |  |   |  |                     |            |                         |                                    |                  |                                      |                                     |                |                      |                                             |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Project Location: (county, state) Lea County, New Mexico                                                                                                                                   |                       |                         |                                    | Invoice to: Accounts Payable<br>901 West Wall Street, Suite 100 Midland, Texas 79701 |                                      |                                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |                    |              |                                                                                                                                                                                                                                            |                |   |   |  |  |   |  |                     |            |                         |                                    |                  |                                      |                                     |                |                      |                                             |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Receiving Laboratory: Pace Analytical                                                                                                                                                      |                       |                         |                                    | Sampler Signature:                                                                   |                                      |                                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |                    |              |                                                                                                                                                                                                                                            |                |   |   |  |  |   |  |                     |            |                         |                                    |                  |                                      |                                     |                |                      |                                             |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Comments: Run deeper samples if GRO+DRO exceeds 100 mg/kg or if benzene exceeds 10 mg/kg or if total BTEX exceeds 50 mg/kg or if chlorides exceed 600 mg/kg.                               |                       |                         |                                    | COPTETRA Acctnum                                                                     |                                      |                                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |                    |              |                                                                                                                                                                                                                                            |                |   |   |  |  |   |  |                     |            |                         |                                    |                  |                                      |                                     |                |                      |                                             |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LAB #<br><br>(LAB USE ONLY)                                                                                                                                                                | SAMPLE IDENTIFICATION |                         | SAMPLING                           |                                                                                      | MATRIX                               |                                     | PRESERVATIVE METHOD |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |                    | # CONTAINERS |                                                                                                                                                                                                                                            | FILTERED (Y/N) |   |   |  |  |   |  |                     |            |                         |                                    |                  |                                      |                                     |                |                      |                                             |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                            |                       |                         | YEAR: 2019                         |                                                                                      |                                      |                                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |                    |              |                                                                                                                                                                                                                                            |                |   |   |  |  |   |  |                     |            |                         |                                    |                  |                                      |                                     |                |                      |                                             |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                            |                       |                         | DATE                               | TIME                                                                                 | WATER                                | SOIL                                | HCL                 | HNO3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ICE | NONE               |              |                                                                                                                                                                                                                                            |                |   |   |  |  |   |  |                     |            |                         |                                    |                  |                                      |                                     |                |                      |                                             |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                            | BH-7 (6'- 7')         |                         | 9/16/2019                          | 1445                                                                                 |                                      | X                                   |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X   |                    |              | 1                                                                                                                                                                                                                                          | N              |   |   |  |  |   |  |                     |            |                         |                                    |                  |                                      |                                     |                |                      |                                             |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                            | BH-7 (9'- 10')        |                         | 9/16/2019                          | 1450                                                                                 |                                      | X                                   |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X   |                    |              | 1                                                                                                                                                                                                                                          | N              |   |   |  |  |   |  |                     |            |                         |                                    |                  |                                      |                                     |                |                      |                                             |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22                                                                                                                                                                                         | BH-8 (0'- 1')         |                         | 9/16/2019                          | 1500                                                                                 |                                      | X                                   |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X   |                    |              | 1                                                                                                                                                                                                                                          | N              | X | X |  |  |   |  |                     |            |                         |                                    |                  |                                      |                                     |                |                      |                                             |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23                                                                                                                                                                                         | BH-8 (2'- 3')         |                         | 9/16/2019                          | 1510                                                                                 |                                      | X                                   |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X   |                    |              | 1                                                                                                                                                                                                                                          | N              | X | X |  |  | X |  |                     |            |                         |                                    |                  |                                      |                                     |                |                      |                                             |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24                                                                                                                                                                                         | BH-8 (4'- 5')         |                         | 9/16/2019                          | 1520                                                                                 |                                      | X                                   |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X   |                    |              | 1                                                                                                                                                                                                                                          | N              | X | X |  |  | X |  |                     |            |                         |                                    |                  |                                      |                                     |                |                      |                                             |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                            | BH-8 (6'- 7')         |                         | 9/16/2019                          | 1530                                                                                 |                                      | X                                   |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X   |                    |              | 1                                                                                                                                                                                                                                          | N              |   |   |  |  |   |  |                     |            | X                       |                                    |                  |                                      |                                     |                |                      |                                             |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                                                                                                                                                                                         | BH-9 (0'- 1')         |                         | 9/16/2019                          | 1545                                                                                 |                                      | X                                   |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X   |                    |              | 1                                                                                                                                                                                                                                          | N              | X | X |  |  | X |  |                     |            |                         |                                    |                  |                                      |                                     |                |                      |                                             |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26                                                                                                                                                                                         | BH-9 (2'- 3')         |                         | 9/16/2019                          | 1550                                                                                 |                                      | X                                   |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X   |                    |              | 1                                                                                                                                                                                                                                          | N              | X | X |  |  | X |  |                     |            |                         |                                    |                  |                                      |                                     |                |                      |                                             |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 27                                                                                                                                                                                         | BH-9 (4'- 5')         |                         | 9/16/2019                          | 1555                                                                                 |                                      | X                                   |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X   |                    |              | 1                                                                                                                                                                                                                                          | N              | X | X |  |  | X |  |                     |            |                         |                                    |                  |                                      |                                     |                |                      |                                             |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                            | BH-9 (6'- 7')         |                         | 9/16/2019                          | 1600                                                                                 |                                      | X                                   |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X   |                    |              | 1                                                                                                                                                                                                                                          | N              |   |   |  |  |   |  |                     |            | X                       |                                    |                  |                                      |                                     |                |                      |                                             |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Relinquished by:                                                                                                                                                                           |                       |                         | Date: 9-20-19 Time: 13:00          |                                                                                      | Received by:                         |                                     |                     | Date: 9-20-19 Time: 15:30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     | LAB USE ONLY       |              | REMARKS:<br><input checked="" type="checkbox"/> STANDARD<br><input type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr<br><input type="checkbox"/> Rush Charges Authorized<br><input type="checkbox"/> Special Report Limits or TRRP Report |                |   |   |  |  |   |  |                     |            |                         |                                    |                  |                                      |                                     |                |                      |                                             |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Relinquished by:                                                                                                                                                                           |                       |                         | Date: 9-20-19 Time: 15:30          |                                                                                      | Received by:                         |                                     |                     | Date: 9-20-19 Time: 15:30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |                    |              |                                                                                                                                                                                                                                            |                |   |   |  |  |   |  |                     |            |                         |                                    |                  |                                      |                                     |                |                      |                                             |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Relinquished by:                                                                                                                                                                           |                       |                         | Date: 9-20-19 Time: 15:30          |                                                                                      | Received by:                         |                                     |                     | Date: 9-20-19 Time: 15:30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |                    |              |                                                                                                                                                                                                                                            |                |   |   |  |  |   |  |                     |            |                         |                                    |                  |                                      |                                     |                |                      |                                             |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                            |                       |                         |                                    |                                                                                      |                                      |                                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     | Sample Temperature |              | 3102352                                                                                                                                                                                                                                    |                |   |   |  |  |   |  |                     |            |                         |                                    |                  |                                      |                                     |                |                      |                                             |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                            |                       |                         |                                    |                                                                                      |                                      |                                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |                    |              | (Circle) HAND DELIVERED FEDEX UPS Tracking #:                                                                                                                                                                                              |                |   |   |  |  |   |  |                     |            |                         |                                    |                  |                                      |                                     |                |                      |                                             |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

ORIGINAL COPY



Pace Analytical National Center for Testing & Innovation  
Cooler Receipt Form

|                                 |          |              |    |
|---------------------------------|----------|--------------|----|
| Client:                         | COPTETRA | 1142001      |    |
| Cooler Received/Opened On:      | 9/21/19  | Temperature: | 30 |
| Received By: Paul Minnich       |          |              |    |
| Signature: <i>Paul Minnich</i>  |          |              |    |
|                                 |          |              |    |
| Receipt Check List              | NP       | Yes          | No |
| COC Seal Present / Intact?      | /        |              |    |
| COC Signed / Accurate?          |          | /            |    |
| Bottles arrive intact?          |          | /            |    |
| Correct bottles used?           |          | /            |    |
| Sufficient volume sent?         |          | /            |    |
| If Applicable                   |          | /            |    |
| VOA Zero headspace?             |          |              |    |
| Preservation Correct / Checked? |          |              |    |



## ANALYTICAL REPORT

October 21, 2019

**ConocoPhillips - Tetra Tech**

Sample Delivery Group: L1148640  
Samples Received: 09/21/2019  
Project Number: 212C-MS-01840  
Description: COP VGEU 19-01

Report To: Chrisian Llull  
901 West Wall  
Suite 100  
Midland, TX 79701

Entire Report Reviewed By:

Chris McCord  
Project Manager

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



|                                                     |           |
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| Total Solids by Method 2540 G-2011                  | 12        |
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## BH-5 (14-15') L1148640-01 Solid

Collected by JT  
Collected date/time 09/16/19 12:25  
Received date/time 09/21/19 08:30

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1363643 | 1        | 10/16/19 19:03        | 10/16/19 19:11     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1361375 | 10       | 10/14/19 00:10        | 10/14/19 09:18     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1362118 | 1        | 10/11/19 09:57        | 10/13/19 22:19     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1361770 | 1        | 10/11/19 09:57        | 10/12/19 12:00     | DWR     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1362447 | 1        | 10/14/19 12:31        | 10/14/19 20:33     | KME     | Mt. Juliet, TN |

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn

## BH-5 (24-25') L1148640-02 Solid

Collected by JT  
Collected date/time 09/16/19 12:55  
Received date/time 09/21/19 08:30

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1363448 | 1        | 10/15/19 17:22        | 10/15/19 17:33     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1361375 | 1        | 10/14/19 00:10        | 10/14/19 09:35     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1362118 | 1        | 10/11/19 09:57        | 10/13/19 22:43     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1361770 | 1        | 10/11/19 09:57        | 10/12/19 12:20     | DWR     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1362447 | 1        | 10/14/19 12:31        | 10/14/19 20:46     | KME     | Mt. Juliet, TN |

<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al

## BH-5 (29-30') L1148640-03 Solid

Collected by JT  
Collected date/time 09/16/19 13:10  
Received date/time 09/21/19 08:30

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1363448 | 1        | 10/15/19 17:22        | 10/15/19 17:33     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1361375 | 1        | 10/14/19 00:10        | 10/14/19 09:51     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1362118 | 1        | 10/11/19 09:57        | 10/13/19 23:07     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1361770 | 1        | 10/11/19 09:57        | 10/12/19 12:41     | DWR     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1362447 | 1        | 10/14/19 12:31        | 10/14/19 20:59     | KME     | Mt. Juliet, TN |

<sup>9</sup> Sc

## BH-6 (6-7') L1148640-04 Solid

Collected by JT  
Collected date/time 09/16/19 14:00  
Received date/time 09/21/19 08:30

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1363448 | 1        | 10/15/19 17:22        | 10/15/19 17:33     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1361375 | 20       | 10/14/19 00:10        | 10/14/19 10:08     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1362118 | 1        | 10/11/19 09:57        | 10/13/19 23:54     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1361770 | 1        | 10/11/19 09:57        | 10/12/19 13:01     | DWR     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1362447 | 1        | 10/14/19 12:31        | 10/14/19 21:11     | KME     | Mt. Juliet, TN |

## BH-7 (6-7') L1148640-05 Solid

Collected by JT  
Collected date/time 09/16/19 14:45  
Received date/time 09/21/19 08:30

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1363448 | 1        | 10/15/19 17:22        | 10/15/19 17:33     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1361375 | 10       | 10/14/19 00:10        | 10/14/19 10:24     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1362118 | 1        | 10/11/19 09:57        | 10/14/19 00:18     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1361770 | 1        | 10/11/19 09:57        | 10/12/19 13:22     | DWR     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1362447 | 1        | 10/14/19 12:31        | 10/15/19 11:10     | TJD     | Mt. Juliet, TN |



BH-9 (6-7") L1148640-06 Solid

Collected by  
JTCollected date/time  
09/16/19 16:00Received date/time  
09/21/19 08:30

| Method                                              | Batch     | Dilution | Preparation<br>date/time | Analysis<br>date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|--------------------------|-----------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1363448 | 1        | 10/15/19 17:22           | 10/15/19 17:33        | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1361375 | 1        | 10/14/19 00:10           | 10/14/19 10:41        | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1362118 | 1        | 10/11/19 09:57           | 10/14/19 00:42        | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1361770 | 1        | 10/11/19 09:57           | 10/12/19 13:42        | DWR     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1362447 | 1        | 10/14/19 12:31           | 10/14/19 21:24        | KME     | Mt. Juliet, TN |

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

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



Chris McCord  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc



Collected date/time: 09/16/19 12:25

L1148640

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 92.3   |           | 1        | 10/16/2019 19:11     | <a href="#">WG1363643</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Chloride | 3020         |           | 8.61      | 10.0       | 108       | 10       | 10/14/2019 09:18     | <a href="#">WG1361375</a> |

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

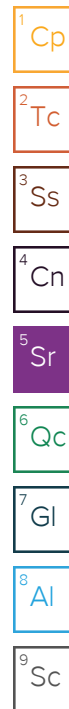
| Analyte                         | Result (dry) | Qualifier          | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|--------------------|-----------|------------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            | <a href="#">T8</a> | 0.0235    | 0.100      | 0.108     | 1        | 10/13/2019 22:19     | <a href="#">WG1362118</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 94.5         |                    |           |            | 77.0-120  |          | 10/13/2019 22:19     | <a href="#">WG1362118</a> |

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

| Analyte                   | Result (dry) | Qualifier            | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|----------------------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            | <a href="#">T8</a>   | 0.000433  | 0.00100    | 0.00108   | 1        | 10/12/2019 12:00     | <a href="#">WG1361770</a> |
| Toluene                   | 0.00531      | <a href="#">J T8</a> | 0.00135   | 0.00500    | 0.00542   | 1        | 10/12/2019 12:00     | <a href="#">WG1361770</a> |
| Ethylbenzene              | 0.00135      | <a href="#">J T8</a> | 0.000574  | 0.00250    | 0.00271   | 1        | 10/12/2019 12:00     | <a href="#">WG1361770</a> |
| Total Xylenes             | U            | <a href="#">T8</a>   | 0.00518   | 0.00650    | 0.00704   | 1        | 10/12/2019 12:00     | <a href="#">WG1361770</a> |
| (S) Toluene-d8            | 104          |                      |           |            | 75.0-131  |          | 10/12/2019 12:00     | <a href="#">WG1361770</a> |
| (S) 4-Bromofluorobenzene  | 103          |                      |           |            | 67.0-138  |          | 10/12/2019 12:00     | <a href="#">WG1361770</a> |
| (S) 1,2-Dichloroethane-d4 | 99.9         |                      |           |            | 70.0-130  |          | 10/12/2019 12:00     | <a href="#">WG1361770</a> |

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

| Analyte              | Result (dry) | Qualifier          | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|--------------------|-----------|------------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U            | <a href="#">T8</a> | 1.74      | 4.00       | 4.33      | 1        | 10/14/2019 20:33     | <a href="#">WG1362447</a> |
| C28-C40 Oil Range    | U            | <a href="#">T8</a> | 0.297     | 4.00       | 4.33      | 1        | 10/14/2019 20:33     | <a href="#">WG1362447</a> |
| (S) o-Terphenyl      | 70.8         |                    |           |            | 18.0-148  |          | 10/14/2019 20:33     | <a href="#">WG1362447</a> |



Collected date/time: 09/16/19 12:55

L1148640

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 96.5   |           | 1        | 10/15/2019 17:33     | <a href="#">WG1363448</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Chloride | 260          |           | 0.824     | 10.0       | 10.4      | 1        | 10/14/2019 09:35     | <a href="#">WG1361375</a> |

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

| Analyte                         | Result (dry) | Qualifier          | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|--------------------|-----------|------------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            | <a href="#">T8</a> | 0.0225    | 0.100      | 0.104     | 1        | 10/13/2019 22:43     | <a href="#">WG1362118</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 96.4         |                    |           |            | 77.0-120  |          | 10/13/2019 22:43     | <a href="#">WG1362118</a> |

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

| Analyte                   | Result (dry) | Qualifier          | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|--------------------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            | <a href="#">T8</a> | 0.000414  | 0.00100    | 0.00104   | 1        | 10/12/2019 12:20     | <a href="#">WG1361770</a> |
| Toluene                   | 0.00537      | <a href="#">T8</a> | 0.00129   | 0.00500    | 0.00518   | 1        | 10/12/2019 12:20     | <a href="#">WG1361770</a> |
| Ethylbenzene              | U            | <a href="#">T8</a> | 0.000549  | 0.00250    | 0.00259   | 1        | 10/12/2019 12:20     | <a href="#">WG1361770</a> |
| Total Xylenes             | U            | <a href="#">T8</a> | 0.00495   | 0.00650    | 0.00673   | 1        | 10/12/2019 12:20     | <a href="#">WG1361770</a> |
| (S) Toluene-d8            | 103          |                    |           |            | 75.0-131  |          | 10/12/2019 12:20     | <a href="#">WG1361770</a> |
| (S) 4-Bromofluorobenzene  | 102          |                    |           |            | 67.0-138  |          | 10/12/2019 12:20     | <a href="#">WG1361770</a> |
| (S) 1,2-Dichloroethane-d4 | 98.8         |                    |           |            | 70.0-130  |          | 10/12/2019 12:20     | <a href="#">WG1361770</a> |

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

| Analyte              | Result (dry) | Qualifier          | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|--------------------|-----------|------------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U            | <a href="#">T8</a> | 1.67      | 4.00       | 4.14      | 1        | 10/14/2019 20:46     | <a href="#">WG1362447</a> |
| C28-C40 Oil Range    | U            | <a href="#">T8</a> | 0.284     | 4.00       | 4.14      | 1        | 10/14/2019 20:46     | <a href="#">WG1362447</a> |
| (S) o-Terphenyl      | 79.5         |                    |           |            | 18.0-148  |          | 10/14/2019 20:46     | <a href="#">WG1362447</a> |

Collected date/time: 09/16/19 13:10

L1148640

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 95.8   |           | 1        | 10/15/2019 17:33     | <a href="#">WG1363448</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Chloride | 138          |           | 0.830     | 10.0       | 10.4      | 1        | 10/14/2019 09:51     | <a href="#">WG1361375</a> |

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

| Analyte                         | Result (dry) | Qualifier          | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|--------------------|-----------|------------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            | <a href="#">T8</a> | 0.0227    | 0.100      | 0.104     | 1        | 10/13/2019 23:07     | <a href="#">WG1362118</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 95.0         |                    |           |            | 77.0-120  |          | 10/13/2019 23:07     | <a href="#">WG1362118</a> |

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

| Analyte                   | Result (dry) | Qualifier            | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|----------------------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            | <a href="#">T8</a>   | 0.000418  | 0.00100    | 0.00104   | 1        | 10/12/2019 12:41     | <a href="#">WG1361770</a> |
| Toluene                   | 0.00478      | <a href="#">J T8</a> | 0.00130   | 0.00500    | 0.00522   | 1        | 10/12/2019 12:41     | <a href="#">WG1361770</a> |
| Ethylbenzene              | U            | <a href="#">T8</a>   | 0.000553  | 0.00250    | 0.00261   | 1        | 10/12/2019 12:41     | <a href="#">WG1361770</a> |
| Total Xylenes             | U            | <a href="#">T8</a>   | 0.00499   | 0.00650    | 0.00679   | 1        | 10/12/2019 12:41     | <a href="#">WG1361770</a> |
| (S) Toluene-d8            | 103          |                      |           |            | 75.0-131  |          | 10/12/2019 12:41     | <a href="#">WG1361770</a> |
| (S) 4-Bromofluorobenzene  | 104          |                      |           |            | 67.0-138  |          | 10/12/2019 12:41     | <a href="#">WG1361770</a> |
| (S) 1,2-Dichloroethane-d4 | 98.8         |                      |           |            | 70.0-130  |          | 10/12/2019 12:41     | <a href="#">WG1361770</a> |

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

| Analyte              | Result (dry) | Qualifier          | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|--------------------|-----------|------------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U            | <a href="#">T8</a> | 1.68      | 4.00       | 4.18      | 1        | 10/14/2019 20:59     | <a href="#">WG1362447</a> |
| C28-C40 Oil Range    | U            | <a href="#">T8</a> | 0.286     | 4.00       | 4.18      | 1        | 10/14/2019 20:59     | <a href="#">WG1362447</a> |
| (S) o-Terphenyl      | 82.9         |                    |           |            | 18.0-148  |          | 10/14/2019 20:59     | <a href="#">WG1362447</a> |

Collected date/time: 09/16/19 14:00

L1148640

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 94.4   |           | 1        | 10/15/2019 17:33     | <a href="#">WG1363448</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Chloride | 6500         |           | 16.9      | 10.0       | 212       | 20       | 10/14/2019 10:08     | <a href="#">WG1361375</a> |

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

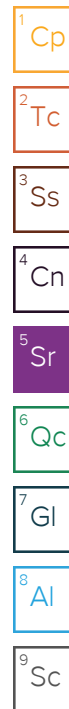
| Analyte                         | Result (dry) | Qualifier          | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|--------------------|-----------|------------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            | <a href="#">T8</a> | 0.0230    | 0.100      | 0.106     | 1        | 10/13/2019 23:54     | <a href="#">WG1362118</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 93.3         |                    |           |            | 77.0-120  |          | 10/13/2019 23:54     | <a href="#">WG1362118</a> |

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

| Analyte                   | Result (dry) | Qualifier            | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|----------------------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            | <a href="#">T8</a>   | 0.000424  | 0.00100    | 0.00106   | 1        | 10/12/2019 13:01     | <a href="#">WG1361770</a> |
| Toluene                   | 0.00498      | <a href="#">J T8</a> | 0.00132   | 0.00500    | 0.00530   | 1        | 10/12/2019 13:01     | <a href="#">WG1361770</a> |
| Ethylbenzene              | U            | <a href="#">T8</a>   | 0.000562  | 0.00250    | 0.00265   | 1        | 10/12/2019 13:01     | <a href="#">WG1361770</a> |
| Total Xylenes             | U            | <a href="#">T8</a>   | 0.00506   | 0.00650    | 0.00689   | 1        | 10/12/2019 13:01     | <a href="#">WG1361770</a> |
| (S) Toluene-d8            | 103          |                      |           |            | 75.0-131  |          | 10/12/2019 13:01     | <a href="#">WG1361770</a> |
| (S) 4-Bromofluorobenzene  | 102          |                      |           |            | 67.0-138  |          | 10/12/2019 13:01     | <a href="#">WG1361770</a> |
| (S) 1,2-Dichloroethane-d4 | 99.1         |                      |           |            | 70.0-130  |          | 10/12/2019 13:01     | <a href="#">WG1361770</a> |

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

| Analyte              | Result (dry) | Qualifier          | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|--------------------|-----------|------------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U            | <a href="#">T8</a> | 1.71      | 4.00       | 4.24      | 1        | 10/14/2019 21:11     | <a href="#">WG1362447</a> |
| C28-C40 Oil Range    | U            | <a href="#">T8</a> | 0.290     | 4.00       | 4.24      | 1        | 10/14/2019 21:11     | <a href="#">WG1362447</a> |
| (S) o-Terphenyl      | 69.2         |                    |           |            | 18.0-148  |          | 10/14/2019 21:11     | <a href="#">WG1362447</a> |



Collected date/time: 09/16/19 14:45

L1148640

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 90.8   |           | 1        | 10/15/2019 17:33     | <a href="#">WG1363448</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Chloride | 3760         |           | 8.75      | 10.0       | 110       | 10       | 10/14/2019 10:24     | <a href="#">WG1361375</a> |

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

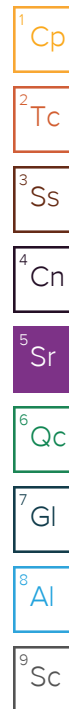
| Analyte                         | Result (dry) | Qualifier          | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|--------------------|-----------|------------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            | <a href="#">T8</a> | 0.0239    | 0.100      | 0.110     | 1        | 10/14/2019 00:18     | <a href="#">WG1362118</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 94.5         |                    |           |            | 77.0-120  |          | 10/14/2019 00:18     | <a href="#">WG1362118</a> |

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

| Analyte                   | Result (dry) | Qualifier            | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|----------------------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            | <a href="#">T8</a>   | 0.000440  | 0.00100    | 0.00110   | 1        | 10/12/2019 13:22     | <a href="#">WG1361770</a> |
| Toluene                   | 0.00545      | <a href="#">J T8</a> | 0.00138   | 0.00500    | 0.00550   | 1        | 10/12/2019 13:22     | <a href="#">WG1361770</a> |
| Ethylbenzene              | U            | <a href="#">T8</a>   | 0.000583  | 0.00250    | 0.00275   | 1        | 10/12/2019 13:22     | <a href="#">WG1361770</a> |
| Total Xylenes             | U            | <a href="#">T8</a>   | 0.00526   | 0.00650    | 0.00716   | 1        | 10/12/2019 13:22     | <a href="#">WG1361770</a> |
| (S) Toluene-d8            | 104          |                      |           |            | 75.0-131  |          | 10/12/2019 13:22     | <a href="#">WG1361770</a> |
| (S) 4-Bromofluorobenzene  | 104          |                      |           |            | 67.0-138  |          | 10/12/2019 13:22     | <a href="#">WG1361770</a> |
| (S) 1,2-Dichloroethane-d4 | 97.7         |                      |           |            | 70.0-130  |          | 10/12/2019 13:22     | <a href="#">WG1361770</a> |

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

| Analyte              | Result (dry) | Qualifier          | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|--------------------|-----------|------------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 4.89         | <a href="#">T8</a> | 1.77      | 4.00       | 4.40      | 1        | 10/15/2019 11:10     | <a href="#">WG1362447</a> |
| C28-C40 Oil Range    | 7.35         | <a href="#">T8</a> | 0.302     | 4.00       | 4.40      | 1        | 10/15/2019 11:10     | <a href="#">WG1362447</a> |
| (S) o-Terphenyl      | 68.4         |                    |           |            | 18.0-148  |          | 10/15/2019 11:10     | <a href="#">WG1362447</a> |



Collected date/time: 09/16/19 16:00

L1148640

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 97.7   |           | 1        | 10/15/2019 17:33     | <a href="#">WG1363448</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Chloride | 251          |           | 0.814     | 10.0       | 10.2      | 1        | 10/14/2019 10:41     | <a href="#">WG1361375</a> |

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

| Analyte                         | Result (dry) | Qualifier          | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|--------------------|-----------|------------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            | <a href="#">T8</a> | 0.0222    | 0.100      | 0.102     | 1        | 10/14/2019 00:42     | <a href="#">WG1362118</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 93.6         |                    |           |            | 77.0-120  |          | 10/14/2019 00:42     | <a href="#">WG1362118</a> |

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

| Analyte                   | Result (dry) | Qualifier          | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|--------------------|-----------|------------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            | <a href="#">T8</a> | 0.000409  | 0.00100    | 0.00102   | 1        | 10/12/2019 13:42     | <a href="#">WG1361770</a> |
| Toluene                   | 0.00532      | <a href="#">T8</a> | 0.00128   | 0.00500    | 0.00512   | 1        | 10/12/2019 13:42     | <a href="#">WG1361770</a> |
| Ethylbenzene              | U            | <a href="#">T8</a> | 0.000542  | 0.00250    | 0.00256   | 1        | 10/12/2019 13:42     | <a href="#">WG1361770</a> |
| Total Xylenes             | U            | <a href="#">T8</a> | 0.00489   | 0.00650    | 0.00665   | 1        | 10/12/2019 13:42     | <a href="#">WG1361770</a> |
| (S) Toluene-d8            | 105          |                    |           |            | 75.0-131  |          | 10/12/2019 13:42     | <a href="#">WG1361770</a> |
| (S) 4-Bromofluorobenzene  | 100          |                    |           |            | 67.0-138  |          | 10/12/2019 13:42     | <a href="#">WG1361770</a> |
| (S) 1,2-Dichloroethane-d4 | 100          |                    |           |            | 70.0-130  |          | 10/12/2019 13:42     | <a href="#">WG1361770</a> |

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

| Analyte              | Result (dry) | Qualifier          | SDL (dry) | Unadj. MQL | MQL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|--------------------|-----------|------------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U            | <a href="#">T8</a> | 1.65      | 4.00       | 4.09      | 1        | 10/14/2019 21:24     | <a href="#">WG1362447</a> |
| C28-C40 Oil Range    | U            | <a href="#">T8</a> | 0.280     | 4.00       | 4.09      | 1        | 10/14/2019 21:24     | <a href="#">WG1362447</a> |
| (S) o-Terphenyl      | 82.8         |                    |           |            | 18.0-148  |          | 10/14/2019 21:24     | <a href="#">WG1362447</a> |



Total Solids by Method 2540 G-2011 [L1148640-02,03,04,05,06](#)

Method Blank (MB)

(MB) R3461494-1 10/15/19 17:33

|              | MB Result | <u>MB Qualifier</u> | MB MDL | MB RDL |
|--------------|-----------|---------------------|--------|--------|
| Analyte      | %         |                     | %      | %      |
| Total Solids | 0.00100   |                     |        |        |

L1150027-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1150027-01 10/15/19 17:33 • (DUP) R3461494-3 10/15/19 17:33

|              | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte      | %               | %          |          | %       |                      | %              |
| Total Solids | 83.7            | 83.9       | 1        | 0.136   |                      | 10             |

Laboratory Control Sample (LCS)

(LCS) R3461494-2 10/15/19 17:33

|              | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | <u>LCS Qualifier</u> |
|--------------|--------------|------------|----------|-------------|----------------------|
| Analyte      | %            | %          | %        | %           |                      |
| Total Solids | 50.0         | 51.0       | 102      | 85.0-115    |                      |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011 [L1148640-01](#)

Method Blank (MB)

(MB) R3461964-1 10/16/19 19:11

|              | MB Result | <u>MB Qualifier</u> | MB MDL | MB RDL |
|--------------|-----------|---------------------|--------|--------|
| Analyte      | %         |                     | %      | %      |
| Total Solids | 0.00100   |                     |        |        |

L1148626-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1148626-01 10/16/19 19:11 • (DUP) R3461964-3 10/16/19 19:11

|              | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte      | %               | %          |          | %       |                      | %              |
| Total Solids | 87.5            | 87.3       | 1        | 0.251   |                      | 10             |

Laboratory Control Sample (LCS)

(LCS) R3461964-2 10/16/19 19:11

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

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Wet Chemistry by Method 300.0

[L1148640-01,02,03,04,05,06](#)

Method Blank (MB)

(MB) R3460716-1 10/14/19 02:04

| Analyte  | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|----------|--------------------|--------------|-----------------|-----------------|
| Chloride | 2.82               | <u>J</u>     | 0.795           | 10.0            |

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1147945-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1147945-13 10/14/19 03:17 • (DUP) R3460716-3 10/14/19 03:34

| Analyte  | Original Result<br>mg/kg | DUP Result<br>mg/kg | Dilution | DUP RPD<br>% | DUP Qualifier | DUP RPD<br>Limits<br>% |
|----------|--------------------------|---------------------|----------|--------------|---------------|------------------------|
| Chloride | 106                      | 104                 | 1        | 1.49         |               | 20                     |

L1148529-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1148529-04 10/14/19 07:07 • (DUP) R3460716-6 10/14/19 07:24

| Analyte  | Original Result<br>mg/kg | DUP Result<br>mg/kg | Dilution | DUP RPD<br>% | DUP Qualifier | DUP RPD<br>Limits<br>% |
|----------|--------------------------|---------------------|----------|--------------|---------------|------------------------|
| Chloride | 11000                    | 11200               | 100      | 1.37         |               | 20                     |

Laboratory Control Sample (LCS)

(LCS) R3460716-2 10/14/19 02:20

| Analyte  | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|----------|-----------------------|---------------------|---------------|------------------|---------------|
| Chloride | 200                   | 217                 | 108           | 90.0-110         |               |

L1148061-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1148061-05 10/14/19 04:39 • (MS) R3460716-4 10/14/19 04:56 • (MSD) R3460716-5 10/14/19 05:45

| Analyte  | Spike Amount<br>(dry)<br>mg/kg | Original Result<br>(dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result<br>(dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------|--------------------------------|-----------------------------------|--------------------------|------------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Chloride | 543                            | 2970                              | 3520                     | 3550                         | 100          | 106           | 1        | 80.0-120         | <u>E</u>     | <u>E</u>      | 0.833    | 20              |

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

[L1148640-01,02,03,04,05,06](#)

Method Blank (MB)

(MB) R3462385-2 10/13/19 17:02

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

Laboratory Control Sample (LCS)

(LCS) R3462385-1 10/13/19 16:13

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| TPH (GC/FID) Low Fraction          | 5.50                  | 4.68                | 85.1          | 72.0-127         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     | 97.3          | 77.0-120         |               |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

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

L1148640-01,02,03,04,05,06

Method Blank (MB)

(MB) R3460564-2 10/12/19 10:17

| Analyte                   | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|---------------------------|--------------------|--------------|-----------------|-----------------|
| Benzene                   | U                  |              | 0.000400        | 0.00100         |
| Ethylbenzene              | U                  |              | 0.000530        | 0.00250         |
| Toluene                   | U                  |              | 0.00125         | 0.00500         |
| Xylenes, Total            | U                  |              | 0.00478         | 0.00650         |
| (S) Toluene-d8            | 105                |              |                 | 75.0-131        |
| (S) 4-Bromofluorobenzene  | 102                |              |                 | 67.0-138        |
| (S) 1,2-Dichloroethane-d4 | 96.1               |              |                 | 70.0-130        |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3460564-1 10/12/19 09:15

| Analyte                   | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|---------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Benzene                   | 0.00500               | 0.00501             | 100           | 70.0-123         |               |
| Ethylbenzene              | 0.00500               | 0.00515             | 103           | 74.0-126         |               |
| Toluene                   | 0.00500               | 0.00468             | 93.6          | 75.0-121         |               |
| Xylenes, Total            | 0.0150                | 0.0132              | 88.0          | 72.0-127         |               |
| (S) Toluene-d8            |                       |                     | 104           | 75.0-131         |               |
| (S) 4-Bromofluorobenzene  |                       |                     | 104           | 67.0-138         |               |
| (S) 1,2-Dichloroethane-d4 |                       |                     | 103           | 70.0-130         |               |

L1146066-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1146066-05 10/12/19 15:47 • (MS) R3460564-3 10/12/19 17:31 • (MSD) R3460564-4 10/12/19 17:52

| Analyte                   | Spike Amount<br>mg/kg | Original Result<br>mg/kg | MS Result<br>mg/kg | MSD Result<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------------------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Benzene                   | 1.00                  | ND                       | 0.696              | 0.641               | 69.6         | 64.1          | 8        | 10.0-149         |              |               | 8.23     | 37              |
| Ethylbenzene              | 1.00                  | 0.453                    | 1.26               | 1.16                | 80.7         | 70.7          | 8        | 10.0-160         |              |               | 8.26     | 38              |
| Toluene                   | 1.00                  | ND                       | 0.675              | 0.563               | 66.0         | 54.8          | 8        | 10.0-156         |              |               | 18.1     | 38              |
| Xylenes, Total            | 3.00                  | 1.38                     | 3.68               | 3.43                | 76.7         | 68.3          | 8        | 10.0-160         |              |               | 7.03     | 38              |
| (S) Toluene-d8            |                       |                          |                    |                     | 105          | 102           |          | 75.0-131         |              |               |          |                 |
| (S) 4-Bromofluorobenzene  |                       |                          |                    |                     | 107          | 103           |          | 67.0-138         |              |               |          |                 |
| (S) 1,2-Dichloroethane-d4 |                       |                          |                    |                     | 102          | 102           |          | 70.0-130         |              |               |          |                 |

Sample Narrative:

OS: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method 8015 [L1148640-01,02,03,04,05,06](#)

Method Blank (MB)

(MB) R3461012-1 10/14/19 20:08

| Analyte              | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|----------------------|--------------------|--------------|-----------------|-----------------|
| C10-C28 Diesel Range | U                  |              | 1.61            | 4.00            |
| C28-C40 Oil Range    | U                  |              | 0.274           | 4.00            |
| (S) o-Terphenyl      | 75.7               |              |                 | 18.0-148        |

Laboratory Control Sample (LCS)

(LCS) R3461012-2 10/14/19 20:21

| Analyte              | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|----------------------|-----------------------|---------------------|---------------|------------------|---------------|
| C10-C28 Diesel Range | 50.0                  | 40.2                | 80.4          | 50.0-150         |               |
| (S) o-Terphenyl      |                       |                     | 97.6          | 18.0-148         |               |

L1148616-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1148616-01 10/14/19 23:55 • (MS) R3461012-3 10/15/19 00:08 • (MSD) R3461012-4 10/15/19 00:21

| Analyte              | Spike Amount<br>mg/kg | Original Result<br>mg/kg | MS Result<br>mg/kg | MSD Result<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| C10-C28 Diesel Range | 50.0                  | ND                       | 111                | 147                 | 222          | 294           | 5        | 50.0-150         | J5           | J3 J5         | 27.9     | 20              |
| (S) o-Terphenyl      |                       |                          |                    |                     | 83.5         | 77.3          |          | 18.0-148         |              |               |          |                 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

## Guide to Reading and Understanding Your Laboratory Report

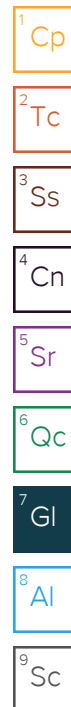
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

## Abbreviations and Definitions

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

| Qualifier | Description                                                                                                                                 |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------|
| E         | The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL). |
| J         | The identification of the analyte is acceptable; the reported value is an estimate.                                                         |
| J3        | The associated batch QC was outside the established quality control range for precision.                                                    |
| J5        | The sample matrix interfered with the ability to make any accurate determination; spike value is high.                                      |
| T8        | Sample(s) received past/too close to holding time expiration.                                                                               |





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

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

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

## State Accreditations

|                         |             |                             |                  |
|-------------------------|-------------|-----------------------------|------------------|
| Alabama                 | 40660       | Nebraska                    | NE-OS-15-05      |
| Alaska                  | 17-026      | Nevada                      | TN-03-2002-34    |
| Arizona                 | AZ0612      | New Hampshire               | 2975             |
| Arkansas                | 88-0469     | New Jersey-NELAP            | TN002            |
| California              | 2932        | New Mexico <sup>1</sup>     | n/a              |
| Colorado                | TN00003     | New York                    | 11742            |
| Connecticut             | PH-0197     | North Carolina              | Env375           |
| Florida                 | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                 | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>    | 923         | North Dakota                | R-140            |
| Idaho                   | TN00003     | Ohio-VAP                    | CL0069           |
| Illinois                | 200008      | Oklahoma                    | 9915             |
| Indiana                 | C-TN-01     | Oregon                      | TN200002         |
| Iowa                    | 364         | Pennsylvania                | 68-02979         |
| Kansas                  | E-10277     | Rhode Island                | LA000356         |
| Kentucky <sup>1 6</sup> | 90010       | South Carolina              | 84004            |
| Kentucky <sup>2</sup>   | 16          | South Dakota                | n/a              |
| Louisiana               | AI30792     | Tennessee <sup>1 4</sup>    | 2006             |
| Louisiana <sup>1</sup>  | LA180010    | Texas                       | T104704245-18-15 |
| Maine                   | TN0002      | Texas <sup>5</sup>          | LAB0152          |
| Maryland                | 324         | Utah                        | TN00003          |
| Massachusetts           | M-TN003     | Vermont                     | VT2006           |
| Michigan                | 9958        | Virginia                    | 460132           |
| Minnesota               | 047-999-395 | Washington                  | C847             |
| Mississippi             | TN00003     | West Virginia               | 233              |
| Missouri                | 340         | Wisconsin                   | 9980939910       |
| Montana                 | CERT0086    | Wyoming                     | A2LA             |

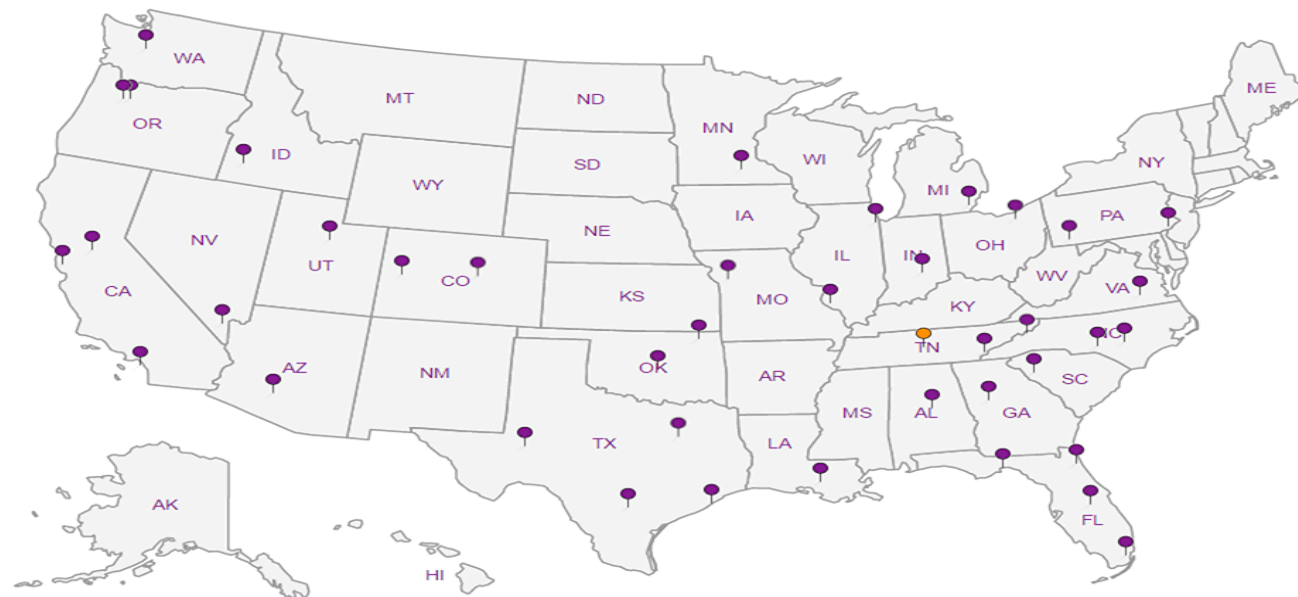
## Third Party Federal Accreditations

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

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.



## Analysis Request of Chain of Custody Record

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|                                                                                                                                                              |                       |  |  |                                                                                                     |      |             |  |                                                           |     |                  |     |               |                |             |   |                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |      |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--|--|-----------------------------------------------------------------------------------------------------|------|-------------|--|-----------------------------------------------------------|-----|------------------|-----|---------------|----------------|-------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------|--|
|  <b>Tetra Tech, Inc.</b>                                                    |                       |  |  | 901 West Wall Street, Suite 100<br>Midland, Texas 79701<br>Tel (432) 682-4559<br>Fax (432) 682-3946 |      |             |  | 1142081 MS 10/13<br><br>1148640                           |     |                  |     |               |                |             |   |                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |      |  |
| Client Name: Conoco Phillips                                                                                                                                 |                       |  |  | Site Manager: Chrisian Llull                                                                        |      |             |  | <b>ANALYSIS REQUEST</b><br>(Circle or Specify Method No.) |     |                  |     |               |                |             |   |                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |      |  |
| Project Name: COP VGEU 19-01                                                                                                                                 |                       |  |  |                                                                                                     |      |             |  |                                                           |     |                  |     |               |                |             |   |                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |      |  |
| Project Location: (county, state) Lea County, New Mexico                                                                                                     |                       |  |  | Project #: 212C-MD-01840                                                                            |      |             |  |                                                           |     |                  |     |               |                |             |   |                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |      |  |
| Invoice to: Accounts Payable<br>901 West Wall Street, Suite 100 Midland, Texas 79701                                                                         |                       |  |  |                                                                                                     |      |             |  |                                                           |     |                  |     |               |                |             |   |                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |      |  |
| Receiving Laboratory: Pace Analytical                                                                                                                        |                       |  |  | Sampler Signature: <i>J. Lull</i>                                                                   |      |             |  |                                                           |     |                  |     |               |                |             |   |                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |      |  |
| Comments: Run deeper samples if GRO+DRO exceeds 100 mg/kg or if benzene exceeds 10 mg/kg or if total BTEX exceeds 50 mg/kg or if chlorides exceed 600 mg/kg. |                       |  |  |                                                                                                     |      |             |  |                                                           |     |                  |     |               |                |             |   |                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |      |  |
| <b>COPETRA Acctnum</b>                                                                                                                                       |                       |  |  |                                                                                                     |      |             |  |                                                           |     |                  |     |               |                |             |   |                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |      |  |
| LAB #<br>(LAB USE ONLY)                                                                                                                                      | SAMPLE IDENTIFICATION |  |  | SAMPLING                                                                                            |      | MATRIX      |  | PRESERVATIVE METHOD                                       |     |                  |     | # CONTAINERS  | FILTERED (Y/N) |             |   |                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |      |  |
|                                                                                                                                                              |                       |  |  | YEAR: 2019                                                                                          | DATE |             |  | TIME                                                      | HCL | HNO <sub>3</sub> | ICE |               |                |             |   |                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  | NONE |  |
| 10                                                                                                                                                           | BH-4 (0'- 1')         |  |  | 9/16/2019                                                                                           | 1120 | X           |  |                                                           | X   |                  |     | 1             | N              | X           | X |                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |      |  |
| 11                                                                                                                                                           | BH-4 (2'- 3')         |  |  | 9/16/2019                                                                                           | 1125 | X           |  |                                                           | X   |                  |     | 1             | N              | X           | X |                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |      |  |
| 12                                                                                                                                                           | BH-4 (4'- 5')         |  |  | 9/16/2019                                                                                           | 1130 | X           |  |                                                           | X   |                  |     | 1             | N              | X           | X |                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |      |  |
| 13                                                                                                                                                           | BH-5 (0'- 1')         |  |  | 9/16/2019                                                                                           | 1145 | X           |  |                                                           | X   |                  |     | 1             | N              | X           | X |                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |      |  |
| 14                                                                                                                                                           | BH-5 (2'- 3')         |  |  | 9/16/2019                                                                                           | 1150 | X           |  |                                                           | X   |                  |     | 1             | N              | X           | X |                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |      |  |
| 15                                                                                                                                                           | BH-5 (4'- 5')         |  |  | 9/16/2019                                                                                           | 1155 | X           |  |                                                           | X   |                  |     | 1             | N              | X           | X |                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |      |  |
|                                                                                                                                                              | BH-5 (6'- 7')         |  |  | 9/16/2019                                                                                           | 1200 | X           |  |                                                           | X   |                  |     | 1             | N              |             |   | X                                                                                                                                                                                                                                                                                               |  |  |  |  |  |  |  |  |  |      |  |
|                                                                                                                                                              | BH-5 (9'- 10')        |  |  | 9/16/2019                                                                                           | 1210 | X           |  |                                                           | X   |                  |     | 1             | N              |             |   | X                                                                                                                                                                                                                                                                                               |  |  |  |  |  |  |  |  |  |      |  |
| 01                                                                                                                                                           | BH-5 (14'- 15')       |  |  | 9/16/2019                                                                                           | 1225 | X           |  |                                                           | X   |                  |     | 1             | N              |             |   | X                                                                                                                                                                                                                                                                                               |  |  |  |  |  |  |  |  |  |      |  |
|                                                                                                                                                              | BH-5 (19'- 20')       |  |  | 9/16/2019                                                                                           | 1240 | X           |  |                                                           | X   |                  |     | 1             | N              |             |   | X                                                                                                                                                                                                                                                                                               |  |  |  |  |  |  |  |  |  |      |  |
| Relinquished by: <i>J. Lull</i>                                                                                                                              |                       |  |  | Date: 9-20-19                                                                                       |      | Time: 13:00 |  | Received by: <i>[Signature]</i>                           |     |                  |     | Date: 9-20    |                | Time: 13:00 |   | <b>LAB USE ONLY</b><br><br>Sample Temperature<br><br>REMARKS:<br><input checked="" type="checkbox"/> STANDARD<br><input type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr<br><input type="checkbox"/> Rush Charges Authorized<br><input type="checkbox"/> Special Report Limits or TRRP Report |  |  |  |  |  |  |  |  |  |      |  |
| Relinquished by: <i>[Signature]</i>                                                                                                                          |                       |  |  | Date: 9-20                                                                                          |      | Time: 15:30 |  | Received by: <i>[Signature]</i>                           |     |                  |     | Date: 9-20    |                | Time: 15:30 |   |                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |      |  |
| Relinquished by: <i>[Signature]</i>                                                                                                                          |                       |  |  | Date: 9/20/19                                                                                       |      | Time: 8:50  |  | Received by: <i>[Signature]</i>                           |     |                  |     | Date: 9/20/19 |                | Time: 8:50  |   |                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |      |  |

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## Analysis Request of Chain of Custody Record

Page: 3 of 4

|                                                                                                                                                              |                       |                                                                                                     |      |                                                           |      |                           |                  |                                                              |                |                                                                                                                                                                                                                                                   |   |            |            |                         |                                   |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |   |   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------|------|---------------------------|------------------|--------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------|------------|-------------------------|-----------------------------------|-----------|--------------------------------------|-------------------------------------|----------------|---------------------|-----|------------------------|----------------------------|------------------|------|----------------|----------------|----------------------|---------------------------------------------|----------------------|-----------|------|---|---|
|  <b>Tetra Tech, Inc.</b>                                                    |                       | 901 West Wall Street, Suite 100<br>Midland, Texas 79701<br>Tel (432) 682-4559<br>Fax (432) 682-3946 |      | 1142081<br>M7/4/16<br>1148640                             |      |                           |                  |                                                              |                |                                                                                                                                                                                                                                                   |   |            |            |                         |                                   |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |   |   |
| Client Name: Conoco Phillips                                                                                                                                 |                       | Site Manager: Chrisian Llull                                                                        |      | <b>ANALYSIS REQUEST</b><br>(Circle or Specify Method No.) |      |                           |                  |                                                              |                |                                                                                                                                                                                                                                                   |   |            |            |                         |                                   |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |   |   |
| Project Name: COP VGEU 19-01                                                                                                                                 |                       |                                                                                                     |      |                                                           |      |                           |                  |                                                              |                |                                                                                                                                                                                                                                                   |   |            |            |                         |                                   |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |   |   |
| Project Location: (county, state) Lea County, New Mexico                                                                                                     |                       | Project #: 212C-MD-01840                                                                            |      |                                                           |      |                           |                  |                                                              |                |                                                                                                                                                                                                                                                   |   |            |            |                         |                                   |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |   |   |
| Invoice to: Accounts Payable<br>901 West Wall Street, Suite 100 Midland, Texas 79701                                                                         |                       |                                                                                                     |      |                                                           |      |                           |                  |                                                              |                |                                                                                                                                                                                                                                                   |   |            |            |                         |                                   |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |   |   |
| Receiving Laboratory: Pace Analytical                                                                                                                        |                       | Sampler Signature: <i>[Signature]</i>                                                               |      |                                                           |      |                           |                  |                                                              |                |                                                                                                                                                                                                                                                   |   |            |            |                         |                                   |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |   |   |
| Comments: Run deeper samples if GRO+DRO exceeds 100 mg/kg or if benzene exceeds 10 mg/kg or if total BTEX exceeds 50 mg/kg or if chlorides exceed 600 mg/kg. |                       |                                                                                                     |      |                                                           |      |                           |                  |                                                              |                |                                                                                                                                                                                                                                                   |   |            |            |                         |                                   |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |   |   |
| <b>COP TETRA Acctnum</b>                                                                                                                                     |                       |                                                                                                     |      |                                                           |      |                           |                  |                                                              |                |                                                                                                                                                                                                                                                   |   |            |            |                         |                                   |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |   |   |
| LAB #<br>(LAB USE ONLY)                                                                                                                                      | SAMPLE IDENTIFICATION | SAMPLING                                                                                            |      | MATRIX                                                    |      | PRESERVATIVE METHOD       |                  | # CONTAINERS                                                 | FILTERED (Y/N) |                                                                                                                                                                                                                                                   |   |            |            |                         |                                   |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |   |   |
|                                                                                                                                                              |                       | YEAR: 2019                                                                                          |      |                                                           |      |                           |                  |                                                              |                |                                                                                                                                                                                                                                                   |   |            |            |                         |                                   |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |   |   |
|                                                                                                                                                              |                       | DATE                                                                                                | TIME | WATER                                                     | SOIL | HCL                       | HNO <sub>3</sub> | ICE                                                          | NONE           |                                                                                                                                                                                                                                                   |   | BTEX 8021B | BTEX 8260B | TPH TX1005 (Ext to C35) | TPH 8015M (GRO - DRO - ORO - MRO) | PAH 8270C | Total Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC/MS Vol. 8260B / 624 | GC/MS Semi. Vol. 8270C/625 | PCB's 8082 / 608 | NORM | PLM (Asbestos) | Chloride 300.0 | Chloride Sulfate TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | TPH 8015R | HOLD |   |   |
| 02                                                                                                                                                           | BH-5 (24'- 25')       | 9/16/2019                                                                                           | 1255 | X                                                         |      |                           |                  | X                                                            |                |                                                                                                                                                                                                                                                   | 1 | N          |            |                         |                                   |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |   | X |
| 03                                                                                                                                                           | BH-5 (29'- 30')       | 9/16/2019                                                                                           | 1310 | X                                                         |      |                           |                  | X                                                            |                |                                                                                                                                                                                                                                                   | 1 | N          |            |                         |                                   |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |   | X |
| 16                                                                                                                                                           | BH-6 (0'- 1')         | 9/16/2019                                                                                           | 1330 | X                                                         |      |                           |                  | X                                                            |                |                                                                                                                                                                                                                                                   | 1 | N          | X          | X                       |                                   |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                | X                    |                                             |                      |           |      |   |   |
| 17                                                                                                                                                           | BH-6 (2'- 3')         | 9/16/2019                                                                                           | 1340 | X                                                         |      |                           |                  | X                                                            |                |                                                                                                                                                                                                                                                   | 1 | N          | X          | X                       |                                   |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                | X              |                      |                                             |                      |           |      |   |   |
| 18                                                                                                                                                           | BH-6 (4'- 5')         | 9/16/2019                                                                                           | 1350 | X                                                         |      |                           |                  | X                                                            |                |                                                                                                                                                                                                                                                   | 1 | N          | X          | X                       |                                   |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                | X              |                      |                                             |                      |           |      |   |   |
| 04                                                                                                                                                           | BH-6 (6'- 7')         | 9/16/2019                                                                                           | 1400 | X                                                         |      |                           |                  | X                                                            |                |                                                                                                                                                                                                                                                   | 1 | N          |            |                         |                                   |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                      |                                             |                      |           |      | X |   |
|                                                                                                                                                              | BH-6 (9'- 10')        | 9/16/2019                                                                                           | 1410 | X                                                         |      |                           |                  | X                                                            |                |                                                                                                                                                                                                                                                   | 1 | N          |            |                         |                                   |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                      |                                             |                      |           |      | X |   |
| 19                                                                                                                                                           | BH-7 (0'- 1')         | 9/16/2019                                                                                           | 1430 | X                                                         |      |                           |                  | X                                                            |                |                                                                                                                                                                                                                                                   | 1 | N          | X          | X                       |                                   |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                | X              |                      |                                             |                      |           |      |   |   |
| 20                                                                                                                                                           | BH-7 (2'- 3')         | 9/16/2019                                                                                           | 1435 | X                                                         |      |                           |                  | X                                                            |                |                                                                                                                                                                                                                                                   | 1 | N          | X          | X                       |                                   |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                | X              |                      |                                             |                      |           |      |   |   |
| 21                                                                                                                                                           | BH-7 (4'- 5')         | 9/16/2019                                                                                           | 1440 | X                                                         |      |                           |                  | X                                                            |                |                                                                                                                                                                                                                                                   | 1 | N          | X          | X                       |                                   |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                | X              |                      |                                             |                      |           |      |   |   |
| Relinquished by: <i>[Signature]</i>                                                                                                                          |                       | Date: 9-20-19 Time: 13:00                                                                           |      | Received by: <i>[Signature]</i>                           |      | Date: 9-20-19 Time: 13:00 |                  | <b>LAB USE ONLY</b><br><br>Sample Temperature<br><br>310-352 |                | <b>REMARKS:</b><br><input checked="" type="checkbox"/> STANDARD<br><input type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr<br><input type="checkbox"/> Rush Charges Authorized<br><input type="checkbox"/> Special Report Limits or TRRP Report |   |            |            |                         |                                   |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |   |   |
| Relinquished by: <i>[Signature]</i>                                                                                                                          |                       | Date: 9-20-19 Time: 15:30                                                                           |      | Received by: <i>[Signature]</i>                           |      | Date: 9-20-19 Time: 15:30 |                  |                                                              |                |                                                                                                                                                                                                                                                   |   |            |            |                         |                                   |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |   |   |
| Relinquished by: <i>[Signature]</i>                                                                                                                          |                       | Date: 9/31/15 Time: 8:30                                                                            |      | Received by: <i>[Signature]</i>                           |      | Date: 9/31/15 Time: 8:30  |                  |                                                              |                |                                                                                                                                                                                                                                                   |   |            |            |                         |                                   |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |   |   |

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Page : 4 of 4



# Tetra Tech, Inc.

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

1148648

**Client Name:**

Conoco Phillips

Site Manager:

Chrisian Lull

Project Name:

COP VGEU 19-01

Project Location:  
(county, state)

Lea County, New Mexico

Project #:

212C-MD-01840

Invoice to:

Accounts Payable

901 West Wall Street, Suite 100 Midland, Texas 79701

Receiving Laboratory:

## Pace Analytical

**Sampler Signature:**

Comments:

Run deeper samples if GRO+DRO exceeds 100 mg/kg or if benzene exceeds 10 mg/kg or if total BTEX exceeds 50 mg/kg or if chlorides exceed 600 mg/kg.

**COPTETRA Acctnum**

ANALYSIS REQUEST  
(Circle or Specify Method No.)[illegible]

Relinquished by:

Date: Time:

Received by:

Date: Time:

LAB USE  
ONLY

REMARKS:

☒ STANDARD

Relinquished by:

Date: Time: 5:30

Received by:

Date: Time:

Sample Temperature

☐ RUSH: Same Day 24 hr 48 hr 72 hr

Relinquished by:

Date: Time:

Received by:

Date: Time:

☐ Rush Charges Authorized☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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**Matt Shacklock**

**From:** Chris McCord  
**Sent:** Wednesday, October 9, 2019 2:57 PM  
**To:** Project Service  
**Subject:** L1142081 \*COPTETRA\* log from hold 9-148

Please log hold samples BH-5 (14-15'), BH-5 (24-25'), BH-5 (29-30'), BH-6 (6-7'), BH-7 (6-7'), and BH-9 (6-7') for V8260BTEX, GRO, DRORLA, CHLORIDE-300, and TS. Log as R5 due 10/16.

Thanks,

Christopher McCord

*Project Manager*

**Pace Analytical National Center for Testing & Innovation**

12065 Lebanon Road | Mt. Juliet, TN 37122

615.773.3281 | Cell 615.504.3183

[cmccord@pacenational.com](mailto:cmccord@pacenational.com) | [pacenational.com](http://pacenational.com)

***ESC Lab Sciences is now Pace Analytical National Center for Testing & Innovation! Please make note of my new email address and website.***

**From:** Dickerson, Ryan [<mailto:Ryan.Dickerson@tetrattech.com>]

**Sent:** Wednesday, October 09, 2019 2:24 PM

**To:** Chris McCord

**Cc:** Llull, Christian

**Subject:** COP - VGEU 19-01, Project Number: 212C-MD-01840

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

Chris,

Can you run the following "on-hold" samples for chloride, GRO, DRO, ORO and BTEX?

**BH-5 (14-15')**

**BH-5 (24-25')**

**BH-5 (29-30')**

**BH-6 (6-7')**

**BH-7 (6-7')**

**BH-9 (6-7')**

Thanks,

**Ryan Dickerson** | Senior Staff Geologist

Direct +1 (512) 338-2889 | Main +1 (512) 338-1667 | Cell +1 (512) 217-7254 | [ryan.dickerson@tetrattech.com](mailto:ryan.dickerson@tetrattech.com)

**Tetra Tech** | *Leading with Science®* | OGA

8911 N. Capital of TX Hwy. | Bldg. 2, Ste 2310 | Austin, TX 78759 | [tetrattech.com](http://tetrattech.com)



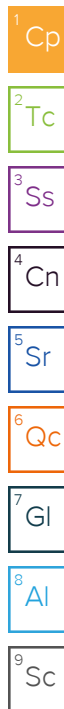
## ANALYTICAL REPORT

April 21, 2021

**ConocoPhillips - Tetra Tech**

Sample Delivery Group: L1337069  
Samples Received: 04/10/2021  
Project Number: 212C-MD-01840  
Description: COP VGEU 19-01 Flowline Release

Report To: Chrisian Llull  
901 West Wall  
Suite 100  
Midland, TX 79701



Entire Report Reviewed By:

Erica McNeese  
Project Manager

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

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

|                                                     |    |
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| Semi-Volatile Organic Compounds (GC) by Method 8015 | 52 |
| Gl: Glossary of Terms                               | 55 |

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



AI: Accreditations & Locations  
Sc: Sample Chain of Custody

56  
57

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

## BH-10 (0-1) L1337069-01 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652195 | 1        | 04/15/21 13:52        | 04/15/21 14:10     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651744 | 1        | 04/18/21 14:05        | 04/18/21 15:38     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1653328 | 1        | 04/13/21 16:40        | 04/18/21 16:52     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651344 | 1        | 04/13/21 16:40        | 04/14/21 14:54     | JHH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1652843 | 1        | 04/16/21 10:57        | 04/17/21 11:06     | CAG     | Mt. Juliet, TN |

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn

## BH-10 (2-3) L1337069-02 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652195 | 1        | 04/15/21 13:52        | 04/15/21 14:10     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651744 | 1        | 04/18/21 14:05        | 04/18/21 15:48     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1653328 | 1        | 04/13/21 16:40        | 04/18/21 17:20     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651344 | 1        | 04/13/21 16:40        | 04/14/21 15:12     | JHH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1652843 | 1        | 04/16/21 10:57        | 04/17/21 01:05     | TJD     | Mt. Juliet, TN |

<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al

## BH-10 (3-4) L1337069-03 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652195 | 1        | 04/15/21 13:52        | 04/15/21 14:10     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651744 | 1        | 04/18/21 14:05        | 04/18/21 15:57     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1653328 | 1        | 04/13/21 16:40        | 04/18/21 17:48     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651344 | 1        | 04/13/21 16:40        | 04/14/21 15:31     | JHH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1653278 | 1        | 04/16/21 19:59        | 04/17/21 07:20     | CAG     | Mt. Juliet, TN |

<sup>9</sup> Sc

## BH-10 (4-5) L1337069-04 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652195 | 1        | 04/15/21 13:52        | 04/15/21 14:10     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651744 | 1        | 04/18/21 14:05        | 04/18/21 16:07     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1653328 | 1        | 04/13/21 16:40        | 04/18/21 19:06     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651344 | 1        | 04/13/21 16:40        | 04/14/21 15:50     | JHH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1653278 | 1        | 04/16/21 19:59        | 04/17/21 07:33     | CAG     | Mt. Juliet, TN |

## BH-11 (0-1) L1337069-05 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652195 | 1        | 04/15/21 13:52        | 04/15/21 14:10     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651744 | 1        | 04/18/21 14:05        | 04/18/21 16:17     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1653328 | 1        | 04/13/21 16:40        | 04/18/21 19:34     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651344 | 1        | 04/13/21 16:40        | 04/14/21 16:09     | JHH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1653278 | 1        | 04/16/21 19:59        | 04/17/21 07:46     | CAG     | Mt. Juliet, TN |

## BH-11 (2-3) L1337069-06 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652297 | 1        | 04/15/21 15:32        | 04/15/21 15:52     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651744 | 1        | 04/18/21 14:05        | 04/18/21 16:27     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1653328 | 1        | 04/13/21 16:40        | 04/18/21 20:03     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651624 | 1        | 04/13/21 16:40        | 04/14/21 22:46     | JHH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1653278 | 1        | 04/16/21 19:59        | 04/18/21 12:25     | CAG     | Mt. Juliet, TN |

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn

## BH-11 (3-4) L1337069-07 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652297 | 1        | 04/15/21 15:32        | 04/15/21 15:52     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651744 | 1        | 04/18/21 14:05        | 04/18/21 16:46     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1653328 | 1        | 04/13/21 16:40        | 04/18/21 20:31     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651624 | 1        | 04/13/21 16:40        | 04/14/21 23:05     | JHH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1653278 | 1        | 04/16/21 19:59        | 04/18/21 11:44     | CAG     | Mt. Juliet, TN |

<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al

## BH-11 (4-5) L1337069-08 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652297 | 1        | 04/15/21 15:32        | 04/15/21 15:52     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651744 | 1        | 04/18/21 14:05        | 04/18/21 17:15     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1653328 | 1        | 04/13/21 16:40        | 04/18/21 20:59     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651716 | 1        | 04/13/21 16:40        | 04/14/21 22:24     | JHH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1653278 | 1        | 04/16/21 19:59        | 04/18/21 11:31     | CAG     | Mt. Juliet, TN |

<sup>9</sup> Sc

## BH-12 (0-1) L1337069-09 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652297 | 1        | 04/15/21 15:32        | 04/15/21 15:52     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651744 | 1        | 04/18/21 14:05        | 04/18/21 17:25     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1653328 | 1        | 04/13/21 16:40        | 04/18/21 21:27     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651716 | 1        | 04/13/21 16:40        | 04/14/21 22:42     | JHH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1653278 | 1        | 04/16/21 19:59        | 04/17/21 08:53     | CAG     | Mt. Juliet, TN |

## BH-12 (2-3) L1337069-10 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652297 | 1        | 04/15/21 15:32        | 04/15/21 15:52     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651744 | 1        | 04/18/21 14:05        | 04/18/21 17:35     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1653328 | 1        | 04/13/21 16:40        | 04/18/21 21:55     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651716 | 1        | 04/13/21 16:40        | 04/14/21 23:01     | JHH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1653278 | 1        | 04/16/21 19:59        | 04/17/21 08:40     | CAG     | Mt. Juliet, TN |

## BH-12 (3-4) L1337069-11 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652297 | 1        | 04/15/21 15:32        | 04/15/21 15:52     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651744 | 1        | 04/18/21 14:05        | 04/18/21 17:45     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1653328 | 1        | 04/13/21 16:40        | 04/18/21 22:41     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651716 | 1        | 04/13/21 16:40        | 04/14/21 23:20     | JHH     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1653278 | 1        | 04/16/21 19:59        | 04/17/21 09:07     | CAG     | Mt. Juliet, TN |

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn

## BH-12 (4-5) L1337069-12 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652297 | 1        | 04/15/21 15:32        | 04/15/21 15:52     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651744 | 1        | 04/18/21 14:05        | 04/18/21 17:54     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1653328 | 1        | 04/13/21 16:40        | 04/18/21 23:17     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651716 | 1        | 04/13/21 16:40        | 04/15/21 00:55     | BMB     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1653278 | 1        | 04/16/21 19:59        | 04/17/21 09:20     | CAG     | Mt. Juliet, TN |

<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al

## BH-13 (0-1) L1337069-13 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652297 | 1        | 04/15/21 15:32        | 04/15/21 15:52     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651744 | 10       | 04/18/21 14:05        | 04/18/21 18:04     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1653328 | 1        | 04/13/21 16:40        | 04/18/21 23:45     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651716 | 1        | 04/13/21 16:40        | 04/15/21 01:13     | BMB     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1653278 | 1        | 04/16/21 19:59        | 04/17/21 10:27     | CAG     | Mt. Juliet, TN |

<sup>9</sup> Sc

## BH-13 (2-3) L1337069-14 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652297 | 1        | 04/15/21 15:32        | 04/15/21 15:52     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651744 | 10       | 04/18/21 14:05        | 04/18/21 18:14     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1653328 | 1        | 04/13/21 16:40        | 04/19/21 00:18     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651716 | 1        | 04/13/21 16:40        | 04/15/21 01:32     | BMB     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1653278 | 1        | 04/16/21 19:59        | 04/18/21 12:11     | CAG     | Mt. Juliet, TN |

## BH-13 (3-4) L1337069-15 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652297 | 1        | 04/15/21 15:32        | 04/15/21 15:52     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651744 | 1        | 04/18/21 14:05        | 04/18/21 18:24     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1653328 | 1        | 04/13/21 16:40        | 04/19/21 00:48     | BMB     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651716 | 1        | 04/13/21 16:40        | 04/15/21 01:51     | BMB     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1653278 | 1        | 04/16/21 19:59        | 04/17/21 09:33     | CAG     | Mt. Juliet, TN |

## BH-13 (4-5) L1337069-16 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652301 | 1        | 04/15/21 14:16        | 04/15/21 14:25     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651744 | 1        | 04/18/21 14:05        | 04/18/21 18:33     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1654174 | 1        | 04/13/21 16:40        | 04/19/21 07:34     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651716 | 1        | 04/13/21 16:40        | 04/15/21 02:10     | BMB     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1653278 | 1        | 04/16/21 19:59        | 04/17/21 10:13     | CAG     | Mt. Juliet, TN |

1 Cp

2 Tc

3 Ss

4 Cn

## BH-14 (0-1) L1337069-17 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652301 | 1        | 04/15/21 14:16        | 04/15/21 14:25     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651744 | 1        | 04/18/21 14:05        | 04/18/21 19:38     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1654174 | 1        | 04/13/21 16:40        | 04/19/21 08:02     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651716 | 1        | 04/13/21 16:40        | 04/15/21 02:29     | BMB     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1653278 | 1        | 04/16/21 19:59        | 04/17/21 10:54     | CAG     | Mt. Juliet, TN |

5 Sr

6 Qc

7 Gl

8 Al

## BH-14 (2-3) L1337069-18 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652301 | 1        | 04/15/21 14:16        | 04/15/21 14:25     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651744 | 5        | 04/18/21 14:05        | 04/18/21 19:47     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1654174 | 1        | 04/13/21 16:40        | 04/19/21 08:31     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651716 | 1        | 04/13/21 16:40        | 04/15/21 02:47     | BMB     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1653280 | 1        | 04/17/21 08:26        | 04/18/21 13:31     | CAG     | Mt. Juliet, TN |

9 Sc

## BH-14 (3-4) L1337069-19 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652301 | 1        | 04/15/21 14:16        | 04/15/21 14:25     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651744 | 1        | 04/18/21 14:05        | 04/18/21 19:57     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1654174 | 1        | 04/13/21 16:40        | 04/19/21 08:59     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651716 | 1        | 04/13/21 16:40        | 04/15/21 03:06     | BMB     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1653280 | 1        | 04/17/21 08:26        | 04/17/21 22:39     | CAG     | Mt. Juliet, TN |

## BH-14 (4-5) L1337069-20 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652301 | 1        | 04/15/21 14:16        | 04/15/21 14:25     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651744 | 1        | 04/18/21 14:05        | 04/18/21 20:07     | ELN     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1654174 | 1        | 04/13/21 16:40        | 04/19/21 09:27     | ACG     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651716 | 1        | 04/13/21 16:40        | 04/15/21 03:25     | BMB     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1653280 | 1        | 04/17/21 08:26        | 04/18/21 13:18     | CAG     | Mt. Juliet, TN |

## BH-15 (0-1) L1337069-21 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652301 | 1        | 04/15/21 14:16        | 04/15/21 14:25     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651745 | 1        | 04/14/21 22:45        | 04/15/21 21:57     | GB      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1653738 | 1        | 04/13/21 16:40        | 04/18/21 00:12     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651716 | 1        | 04/13/21 16:40        | 04/15/21 03:44     | BMB     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1653280 | 1        | 04/17/21 08:26        | 04/17/21 23:05     | CAG     | Mt. Juliet, TN |

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn

## BH-15 (2-3) L1337069-22 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652301 | 1        | 04/15/21 14:16        | 04/15/21 14:25     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651745 | 1        | 04/14/21 22:45        | 04/15/21 22:06     | GB      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1653738 | 1        | 04/13/21 16:40        | 04/18/21 00:34     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651716 | 1        | 04/13/21 16:40        | 04/15/21 04:03     | BMB     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1653280 | 1        | 04/17/21 08:26        | 04/18/21 13:58     | CAG     | Mt. Juliet, TN |

<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al

## BH-15 (3-4) L1337069-23 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652301 | 1        | 04/15/21 14:16        | 04/15/21 14:25     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651745 | 1        | 04/14/21 22:45        | 04/15/21 22:16     | GB      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1653738 | 1        | 04/13/21 16:40        | 04/18/21 00:56     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651716 | 1        | 04/13/21 16:40        | 04/15/21 04:22     | BMB     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1653280 | 1        | 04/17/21 08:26        | 04/17/21 23:31     | CAG     | Mt. Juliet, TN |

<sup>9</sup> Sc

## BH-15 (4-5) L1337069-24 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652301 | 1        | 04/15/21 14:16        | 04/15/21 14:25     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651745 | 1        | 04/14/21 22:45        | 04/15/21 22:25     | GB      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1653738 | 1        | 04/13/21 16:40        | 04/18/21 01:18     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651716 | 1        | 04/13/21 16:40        | 04/15/21 04:41     | BMB     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1653280 | 1        | 04/17/21 08:26        | 04/17/21 23:44     | CAG     | Mt. Juliet, TN |

## BH-16 (0-1) L1337069-25 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652301 | 1        | 04/15/21 14:16        | 04/15/21 14:25     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651745 | 1        | 04/14/21 22:45        | 04/15/21 22:35     | GB      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1653738 | 1        | 04/13/21 16:40        | 04/18/21 01:40     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651716 | 1        | 04/13/21 16:40        | 04/15/21 04:59     | BMB     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1653280 | 1        | 04/17/21 08:26        | 04/17/21 23:57     | CAG     | Mt. Juliet, TN |



## BH-16 (2-3) L1337069-26 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652302 | 1        | 04/15/21 14:03        | 04/15/21 14:13     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651745 | 1        | 04/14/21 22:45        | 04/15/21 22:44     | GB      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1653738 | 1        | 04/13/21 16:40        | 04/18/21 02:01     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651716 | 1        | 04/13/21 16:40        | 04/15/21 05:18     | BMB     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1653280 | 1        | 04/17/21 08:26        | 04/18/21 14:12     | CAG     | Mt. Juliet, TN |

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn

## BH-16 (3-4) L1337069-27 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652302 | 1        | 04/15/21 14:03        | 04/15/21 14:13     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651745 | 1        | 04/14/21 22:45        | 04/15/21 23:03     | GB      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1653738 | 1        | 04/13/21 16:40        | 04/18/21 02:23     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651716 | 1        | 04/13/21 16:40        | 04/15/21 05:37     | BMB     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1653280 | 1        | 04/17/21 08:26        | 04/18/21 13:45     | CAG     | Mt. Juliet, TN |

<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al

## BH-16 (4-5) L1337069-28 Solid

Collected by Joe Tyler  
Collected date/time 04/08/21 00:00  
Received date/time 04/10/21 10:20

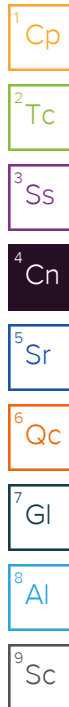
| Method                                              | Batch     | Dilution | Preparation date/time | Analysis date/time | Analyst | Location       |
|-----------------------------------------------------|-----------|----------|-----------------------|--------------------|---------|----------------|
| Total Solids by Method 2540 G-2011                  | WG1652302 | 1        | 04/15/21 14:03        | 04/15/21 14:13     | KDW     | Mt. Juliet, TN |
| Wet Chemistry by Method 300.0                       | WG1651745 | 1        | 04/14/21 22:45        | 04/15/21 23:32     | GB      | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015D/GRO | WG1653738 | 1        | 04/13/21 16:40        | 04/18/21 02:47     | DWR     | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B  | WG1651718 | 1        | 04/13/21 16:40        | 04/15/21 05:15     | ACG     | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1653280 | 1        | 04/17/21 08:26        | 04/18/21 00:36     | CAG     | Mt. Juliet, TN |

<sup>9</sup> Sc

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



Erica McNeese  
Project Manager



Collected date/time: 04/08/21 00:00

L1337069

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 98.6   |           | 1        | 04/15/2021 14:10     | <a href="#">WG1652195</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Chloride | 28.4         |           | 9.33      | 20.3      | 1        | 04/18/2021 15:38     | <a href="#">WG1651744</a> |

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

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            |           | 0.0220    | 0.101     | 1        | 04/18/2021 16:52     | <a href="#">WG1653328</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.4         |           |           | 77.0-120  |          | 04/18/2021 16:52     | <a href="#">WG1653328</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000481  | 0.00103   | 1        | 04/14/2021 14:54     | <a href="#">WG1651344</a> |
| Toluene                   | U            |           | 0.00134   | 0.00515   | 1        | 04/14/2021 14:54     | <a href="#">WG1651344</a> |
| Ethylbenzene              | U            |           | 0.000759  | 0.00257   | 1        | 04/14/2021 14:54     | <a href="#">WG1651344</a> |
| Total Xylenes             | U            |           | 0.000906  | 0.00669   | 1        | 04/14/2021 14:54     | <a href="#">WG1651344</a> |
| (S) Toluene-d8            | 107          |           |           | 75.0-131  |          | 04/14/2021 14:54     | <a href="#">WG1651344</a> |
| (S) 4-Bromofluorobenzene  | 87.8         |           |           | 67.0-138  |          | 04/14/2021 14:54     | <a href="#">WG1651344</a> |
| (S) 1,2-Dichloroethane-d4 | 95.9         |           |           | 70.0-130  |          | 04/14/2021 14:54     | <a href="#">WG1651344</a> |

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

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 9.30         |           | 1.63      | 4.06      | 1        | 04/17/2021 11:06     | <a href="#">WG1652843</a> |
| C28-C40 Oil Range    | 41.3         |           | 0.278     | 4.06      | 1        | 04/17/2021 11:06     | <a href="#">WG1652843</a> |
| (S) o-Terphenyl      | 32.1         |           |           | 18.0-148  |          | 04/17/2021 11:06     | <a href="#">WG1652843</a> |

Collected date/time: 04/08/21 00:00

L1337069

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 96.4   |           | 1        | 04/15/2021 14:10     | <a href="#">WG1652195</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Chloride | 59.1               |           | 9.54            | 20.7            | 1        | 04/18/2021 15:48     | <a href="#">WG1651744</a> |

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

| Analyte                         | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U                  |           | 0.0225          | 0.104           | 1        | 04/18/2021 17:20     | <a href="#">WG1653328</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 97.8               |           |                 | 77.0-120        |          | 04/18/2021 17:20     | <a href="#">WG1653328</a> |

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

| Analyte                   | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | U                  |           | 0.000502        | 0.00107         | 1        | 04/14/2021 15:12     | <a href="#">WG1651344</a> |
| Toluene                   | U                  |           | 0.00140         | 0.00537         | 1        | 04/14/2021 15:12     | <a href="#">WG1651344</a> |
| Ethylbenzene              | U                  |           | 0.000792        | 0.00269         | 1        | 04/14/2021 15:12     | <a href="#">WG1651344</a> |
| Total Xylenes             | U                  |           | 0.000946        | 0.00699         | 1        | 04/14/2021 15:12     | <a href="#">WG1651344</a> |
| (S) Toluene-d8            | 108                |           |                 | 75.0-131        |          | 04/14/2021 15:12     | <a href="#">WG1651344</a> |
| (S) 4-Bromofluorobenzene  | 89.8               |           |                 | 67.0-138        |          | 04/14/2021 15:12     | <a href="#">WG1651344</a> |
| (S) 1,2-Dichloroethane-d4 | 103                |           |                 | 70.0-130        |          | 04/14/2021 15:12     | <a href="#">WG1651344</a> |

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

| Analyte              | Result (dry) mg/kg | Qualifier         | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------------|-------------------|-----------------|-----------------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 2.33               | <a href="#">J</a> | 1.67            | 4.15            | 1        | 04/17/2021 01:05     | <a href="#">WG1652843</a> |
| C28-C40 Oil Range    | 6.16               | <a href="#">B</a> | 0.284           | 4.15            | 1        | 04/17/2021 01:05     | <a href="#">WG1652843</a> |
| (S) o-Terphenyl      | 62.0               |                   |                 | 18.0-148        |          | 04/17/2021 01:05     | <a href="#">WG1652843</a> |

Collected date/time: 04/08/21 00:00

L1337069

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 97.1   |           | 1        | 04/15/2021 14:10 | <a href="#">WG1652195</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Chloride | 82.1         |           | 9.48      | 20.6      | 1        | 04/18/2021 15:57 | <a href="#">WG1651744</a> |

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

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                                 | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction       | U            |           | 0.0224    | 0.103     | 1        | 04/18/2021 17:48 | <a href="#">WG1653328</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.2         |           |           | 77.0-120  |          | 04/18/2021 17:48 | <a href="#">WG1653328</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                           | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Benzene                   | U            |           | 0.000495  | 0.00106   | 1        | 04/14/2021 15:31 | <a href="#">WG1651344</a> |
| Toluene                   | U            |           | 0.00138   | 0.00530   | 1        | 04/14/2021 15:31 | <a href="#">WG1651344</a> |
| Ethylbenzene              | U            |           | 0.000782  | 0.00265   | 1        | 04/14/2021 15:31 | <a href="#">WG1651344</a> |
| Total Xylenes             | U            |           | 0.000933  | 0.00689   | 1        | 04/14/2021 15:31 | <a href="#">WG1651344</a> |
| (S) Toluene-d8            | 109          |           |           | 75.0-131  |          | 04/14/2021 15:31 | <a href="#">WG1651344</a> |
| (S) 4-Bromofluorobenzene  | 90.7         |           |           | 67.0-138  |          | 04/14/2021 15:31 | <a href="#">WG1651344</a> |
| (S) 1,2-Dichloroethane-d4 | 102          |           |           | 70.0-130  |          | 04/14/2021 15:31 | <a href="#">WG1651344</a> |

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

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                      | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range | U            |           | 1.66      | 4.12      | 1        | 04/17/2021 07:20 | <a href="#">WG1653278</a> |
| C28-C40 Oil Range    | 1.05         | J         | 0.282     | 4.12      | 1        | 04/17/2021 07:20 | <a href="#">WG1653278</a> |
| (S) o-Terphenyl      | 68.6         |           |           | 18.0-148  |          | 04/17/2021 07:20 | <a href="#">WG1653278</a> |

Collected date/time: 04/08/21 00:00

L1337069

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 94.4   |           | 1        | 04/15/2021 14:10     | <a href="#">WG1652195</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Chloride | 20.4         | J         | 9.74      | 21.2      | 1        | 04/18/2021 16:07     | <a href="#">WG1651744</a> |

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

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            |           | 0.0230    | 0.106     | 1        | 04/18/2021 19:06     | <a href="#">WG1653328</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.3         |           |           | 77.0-120  |          | 04/18/2021 19:06     | <a href="#">WG1653328</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000522  | 0.00112   | 1        | 04/14/2021 15:50     | <a href="#">WG1651344</a> |
| Toluene                   | U            |           | 0.00145   | 0.00559   | 1        | 04/14/2021 15:50     | <a href="#">WG1651344</a> |
| Ethylbenzene              | U            |           | 0.000824  | 0.00280   | 1        | 04/14/2021 15:50     | <a href="#">WG1651344</a> |
| Total Xylenes             | U            |           | 0.000984  | 0.00727   | 1        | 04/14/2021 15:50     | <a href="#">WG1651344</a> |
| (S) Toluene-d8            | 110          |           |           | 75.0-131  |          | 04/14/2021 15:50     | <a href="#">WG1651344</a> |
| (S) 4-Bromofluorobenzene  | 92.9         |           |           | 67.0-138  |          | 04/14/2021 15:50     | <a href="#">WG1651344</a> |
| (S) 1,2-Dichloroethane-d4 | 98.5         |           |           | 70.0-130  |          | 04/14/2021 15:50     | <a href="#">WG1651344</a> |

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

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 2.05         | J         | 1.71      | 4.24      | 1        | 04/17/2021 07:33     | <a href="#">WG1653278</a> |
| C28-C40 Oil Range    | 0.753        | J         | 0.290     | 4.24      | 1        | 04/17/2021 07:33     | <a href="#">WG1653278</a> |
| (S) o-Terphenyl      | 68.0         |           |           | 18.0-148  |          | 04/17/2021 07:33     | <a href="#">WG1653278</a> |



Collected date/time: 04/08/21 00:00

L1337069

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 95.4   |           | 1        | 04/15/2021 14:10 | <a href="#">WG1652195</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Chloride | 25.4         |           | 9.64      | 21.0      | 1        | 04/18/2021 16:17 | <a href="#">WG1651744</a> |

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

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                                 | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction       | 0.213        |           | 0.0227    | 0.105     | 1        | 04/18/2021 19:34 | <a href="#">WG1653328</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 96.5         |           |           | 77.0-120  |          | 04/18/2021 19:34 | <a href="#">WG1653328</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                           | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Benzene                   | U            |           | 0.000512  | 0.00110   | 1        | 04/14/2021 16:09 | <a href="#">WG1651344</a> |
| Toluene                   | U            |           | 0.00143   | 0.00548   | 1        | 04/14/2021 16:09 | <a href="#">WG1651344</a> |
| Ethylbenzene              | U            |           | 0.000808  | 0.00274   | 1        | 04/14/2021 16:09 | <a href="#">WG1651344</a> |
| Total Xylenes             | 0.00150      | J         | 0.000965  | 0.00713   | 1        | 04/14/2021 16:09 | <a href="#">WG1651344</a> |
| (S) Toluene-d8            | 108          |           |           | 75.0-131  |          | 04/14/2021 16:09 | <a href="#">WG1651344</a> |
| (S) 4-Bromofluorobenzene  | 87.1         |           |           | 67.0-138  |          | 04/14/2021 16:09 | <a href="#">WG1651344</a> |
| (S) 1,2-Dichloroethane-d4 | 94.4         |           |           | 70.0-130  |          | 04/14/2021 16:09 | <a href="#">WG1651344</a> |

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

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                      | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range | 3.49         | J         | 1.69      | 4.19      | 1        | 04/17/2021 07:46 | <a href="#">WG1653278</a> |
| C28-C40 Oil Range    | 25.7         |           | 0.287     | 4.19      | 1        | 04/17/2021 07:46 | <a href="#">WG1653278</a> |
| (S) o-Terphenyl      | 71.1         |           |           | 18.0-148  |          | 04/17/2021 07:46 | <a href="#">WG1653278</a> |

Collected date/time: 04/08/21 00:00

L1337069

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 91.7   |           | 1        | 04/15/2021 15:52     | <a href="#">WG1652297</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier          | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|--------------------|-----------|-----------|----------|----------------------|---------------------------|
| Chloride | 39.1         | <a href="#">P1</a> | 10.0      | 21.8      | 1        | 04/18/2021 16:27     | <a href="#">WG1651744</a> |

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

| Analyte                         | Result (dry) | Qualifier         | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|-------------------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | 0.100        | <a href="#">J</a> | 0.0237    | 0.109     | 1        | 04/18/2021 20:03     | <a href="#">WG1653328</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.4         |                   |           | 77.0-120  |          | 04/18/2021 20:03     | <a href="#">WG1653328</a> |

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

| Analyte                   | Result (dry) | Qualifier          | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|--------------------|-----------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            | <a href="#">J3</a> | 0.000552  | 0.00118   | 1        | 04/14/2021 22:46     | <a href="#">WG1651624</a> |
| Toluene                   | U            |                    | 0.00154   | 0.00591   | 1        | 04/14/2021 22:46     | <a href="#">WG1651624</a> |
| Ethylbenzene              | U            | <a href="#">J3</a> | 0.000871  | 0.00295   | 1        | 04/14/2021 22:46     | <a href="#">WG1651624</a> |
| Total Xylenes             | U            |                    | 0.00104   | 0.00768   | 1        | 04/14/2021 22:46     | <a href="#">WG1651624</a> |
| (S) Toluene-d8            | 112          |                    |           | 75.0-131  |          | 04/14/2021 22:46     | <a href="#">WG1651624</a> |
| (S) 4-Bromofluorobenzene  | 98.0         |                    |           | 67.0-138  |          | 04/14/2021 22:46     | <a href="#">WG1651624</a> |
| (S) 1,2-Dichloroethane-d4 | 102          |                    |           | 70.0-130  |          | 04/14/2021 22:46     | <a href="#">WG1651624</a> |

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

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 4.96         |           | 1.76      | 4.36      | 1        | 04/18/2021 12:25     | <a href="#">WG1653278</a> |
| C28-C40 Oil Range    | 18.5         |           | 0.299     | 4.36      | 1        | 04/18/2021 12:25     | <a href="#">WG1653278</a> |
| (S) o-Terphenyl      | 69.8         |           |           | 18.0-148  |          | 04/18/2021 12:25     | <a href="#">WG1653278</a> |

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

Collected date/time: 04/08/21 00:00

L1337069

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 95.6   |           | 1        | 04/15/2021 15:52     | <a href="#">WG1652297</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Chloride | 33.7         |           | 9.62      | 20.9      | 1        | 04/18/2021 16:46     | <a href="#">WG1651744</a> |

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

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | 0.0581       | J         | 0.0227    | 0.105     | 1        | 04/18/2021 20:31     | <a href="#">WG1653328</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.3         |           |           | 77.0-120  |          | 04/18/2021 20:31     | <a href="#">WG1653328</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000510  | 0.00109   | 1        | 04/14/2021 23:05     | <a href="#">WG1651624</a> |
| Toluene                   | U            |           | 0.00142   | 0.00546   | 1        | 04/14/2021 23:05     | <a href="#">WG1651624</a> |
| Ethylbenzene              | U            |           | 0.000804  | 0.00273   | 1        | 04/14/2021 23:05     | <a href="#">WG1651624</a> |
| Total Xylenes             | U            |           | 0.000960  | 0.00709   | 1        | 04/14/2021 23:05     | <a href="#">WG1651624</a> |
| (S) Toluene-d8            | 107          |           |           | 75.0-131  |          | 04/14/2021 23:05     | <a href="#">WG1651624</a> |
| (S) 4-Bromofluorobenzene  | 95.0         |           |           | 67.0-138  |          | 04/14/2021 23:05     | <a href="#">WG1651624</a> |
| (S) 1,2-Dichloroethane-d4 | 107          |           |           | 70.0-130  |          | 04/14/2021 23:05     | <a href="#">WG1651624</a> |

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

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 3.69         | J         | 1.68      | 4.18      | 1        | 04/18/2021 11:44     | <a href="#">WG1653278</a> |
| C28-C40 Oil Range    | 9.20         |           | 0.287     | 4.18      | 1        | 04/18/2021 11:44     | <a href="#">WG1653278</a> |
| (S) o-Terphenyl      | 75.5         |           |           | 18.0-148  |          | 04/18/2021 11:44     | <a href="#">WG1653278</a> |

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

Collected date/time: 04/08/21 00:00

L1337069

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 97.4   |           | 1        | 04/15/2021 15:52     | <a href="#">WG1652297</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Chloride | 14.9               | J         | 9.45            | 20.5            | 1        | 04/18/2021 17:15     | <a href="#">WG1651744</a> |

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

| Analyte                         | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | 0.0244             | J         | 0.0223          | 0.103           | 1        | 04/18/2021 20:59     | <a href="#">WG1653328</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.6               |           |                 | 77.0-120        |          | 04/18/2021 20:59     | <a href="#">WG1653328</a> |

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

| Analyte                   | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | U                  |           | 0.000492        | 0.00105         | 1        | 04/14/2021 22:24     | <a href="#">WG1651716</a> |
| Toluene                   | U                  |           | 0.00137         | 0.00527         | 1        | 04/14/2021 22:24     | <a href="#">WG1651716</a> |
| Ethylbenzene              | U                  |           | 0.000777        | 0.00264         | 1        | 04/14/2021 22:24     | <a href="#">WG1651716</a> |
| Total Xylenes             | U                  |           | 0.000928        | 0.00685         | 1        | 04/14/2021 22:24     | <a href="#">WG1651716</a> |
| (S) Toluene-d8            | 116                |           |                 | 75.0-131        |          | 04/14/2021 22:24     | <a href="#">WG1651716</a> |
| (S) 4-Bromofluorobenzene  | 111                |           |                 | 67.0-138        |          | 04/14/2021 22:24     | <a href="#">WG1651716</a> |
| (S) 1,2-Dichloroethane-d4 | 99.7               |           |                 | 70.0-130        |          | 04/14/2021 22:24     | <a href="#">WG1651716</a> |

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

| Analyte              | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 2.58               | J         | 1.65            | 4.11            | 1        | 04/18/2021 11:31     | <a href="#">WG1653278</a> |
| C28-C40 Oil Range    | 4.65               |           | 0.281           | 4.11            | 1        | 04/18/2021 11:31     | <a href="#">WG1653278</a> |
| (S) o-Terphenyl      | 71.6               |           |                 | 18.0-148        |          | 04/18/2021 11:31     | <a href="#">WG1653278</a> |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 04/08/21 00:00

L1337069

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 95.9   |           | 1        | 04/15/2021 15:52     | <a href="#">WG1652297</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Chloride | 379          |           | 9.60      | 20.9      | 1        | 04/18/2021 17:25     | <a href="#">WG1651744</a> |

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

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            |           | 0.0226    | 0.104     | 1        | 04/18/2021 21:27     | <a href="#">WG1653328</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 97.5         |           |           | 77.0-120  |          | 04/18/2021 21:27     | <a href="#">WG1653328</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000507  | 0.00109   | 1        | 04/14/2021 22:42     | <a href="#">WG1651716</a> |
| Toluene                   | U            |           | 0.00141   | 0.00543   | 1        | 04/14/2021 22:42     | <a href="#">WG1651716</a> |
| Ethylbenzene              | U            |           | 0.000801  | 0.00272   | 1        | 04/14/2021 22:42     | <a href="#">WG1651716</a> |
| Total Xylenes             | U            |           | 0.000956  | 0.00706   | 1        | 04/14/2021 22:42     | <a href="#">WG1651716</a> |
| (S) Toluene-d8            | 116          |           |           | 75.0-131  |          | 04/14/2021 22:42     | <a href="#">WG1651716</a> |
| (S) 4-Bromofluorobenzene  | 108          |           |           | 67.0-138  |          | 04/14/2021 22:42     | <a href="#">WG1651716</a> |
| (S) 1,2-Dichloroethane-d4 | 101          |           |           | 70.0-130  |          | 04/14/2021 22:42     | <a href="#">WG1651716</a> |

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

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 3.72         | J         | 1.68      | 4.17      | 1        | 04/17/2021 08:53     | <a href="#">WG1653278</a> |
| C28-C40 Oil Range    | 17.1         |           | 0.286     | 4.17      | 1        | 04/17/2021 08:53     | <a href="#">WG1653278</a> |
| (S) o-Terphenyl      | 56.8         |           |           | 18.0-148  |          | 04/17/2021 08:53     | <a href="#">WG1653278</a> |

Collected date/time: 04/08/21 00:00

L1337069

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 96.0   |           | 1        | 04/15/2021 15:52     | <a href="#">WG1652297</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Chloride | 253          |           | 9.59      | 20.8      | 1        | 04/18/2021 17:35     | <a href="#">WG1651744</a> |

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

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            |           | 0.0226    | 0.104     | 1        | 04/18/2021 21:55     | <a href="#">WG1653328</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.4         |           |           | 77.0-120  |          | 04/18/2021 21:55     | <a href="#">WG1653328</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000506  | 0.00108   | 1        | 04/14/2021 23:01     | <a href="#">WG1651716</a> |
| Toluene                   | U            |           | 0.00141   | 0.00542   | 1        | 04/14/2021 23:01     | <a href="#">WG1651716</a> |
| Ethylbenzene              | U            |           | 0.000799  | 0.00271   | 1        | 04/14/2021 23:01     | <a href="#">WG1651716</a> |
| Total Xylenes             | U            |           | 0.000954  | 0.00705   | 1        | 04/14/2021 23:01     | <a href="#">WG1651716</a> |
| (S) Toluene-d8            | 115          |           |           | 75.0-131  |          | 04/14/2021 23:01     | <a href="#">WG1651716</a> |
| (S) 4-Bromofluorobenzene  | 108          |           |           | 67.0-138  |          | 04/14/2021 23:01     | <a href="#">WG1651716</a> |
| (S) 1,2-Dichloroethane-d4 | 101          |           |           | 70.0-130  |          | 04/14/2021 23:01     | <a href="#">WG1651716</a> |

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

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U            |           | 1.68      | 4.17      | 1        | 04/17/2021 08:40     | <a href="#">WG1653278</a> |
| C28-C40 Oil Range    | 2.37         | J         | 0.286     | 4.17      | 1        | 04/17/2021 08:40     | <a href="#">WG1653278</a> |
| (S) o-Terphenyl      | 57.9         |           |           | 18.0-148  |          | 04/17/2021 08:40     | <a href="#">WG1653278</a> |

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



Collected date/time: 04/08/21 00:00

L1337069

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 96.4   |           | 1        | 04/15/2021 15:52     | <a href="#">WG1652297</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Chloride | 65.6               |           | 9.55            | 20.8            | 1        | 04/18/2021 17:45     | <a href="#">WG1651744</a> |

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

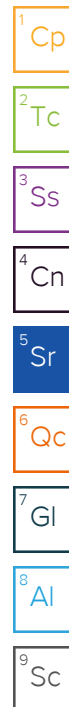
| Analyte                         | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U                  |           | 0.0225          | 0.104           | 1        | 04/18/2021 22:41     | <a href="#">WG1653328</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.3               |           |                 | 77.0-120        |          | 04/18/2021 22:41     | <a href="#">WG1653328</a> |

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

| Analyte                   | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | U                  |           | 0.000503        | 0.00108         | 1        | 04/14/2021 23:20     | <a href="#">WG1651716</a> |
| Toluene                   | U                  |           | 0.00140         | 0.00538         | 1        | 04/14/2021 23:20     | <a href="#">WG1651716</a> |
| Ethylbenzene              | U                  |           | 0.000793        | 0.00269         | 1        | 04/14/2021 23:20     | <a href="#">WG1651716</a> |
| Total Xylenes             | U                  |           | 0.000947        | 0.00699         | 1        | 04/14/2021 23:20     | <a href="#">WG1651716</a> |
| (S) Toluene-d8            | 115                |           |                 | 75.0-131        |          | 04/14/2021 23:20     | <a href="#">WG1651716</a> |
| (S) 4-Bromofluorobenzene  | 109                |           |                 | 67.0-138        |          | 04/14/2021 23:20     | <a href="#">WG1651716</a> |
| (S) 1,2-Dichloroethane-d4 | 102                |           |                 | 70.0-130        |          | 04/14/2021 23:20     | <a href="#">WG1651716</a> |

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

| Analyte              | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U                  |           | 1.67            | 4.15            | 1        | 04/17/2021 09:07     | <a href="#">WG1653278</a> |
| C28-C40 Oil Range    | 1.93               | J         | 0.284           | 4.15            | 1        | 04/17/2021 09:07     | <a href="#">WG1653278</a> |
| (S) o-Terphenyl      | 48.6               |           |                 | 18.0-148        |          | 04/17/2021 09:07     | <a href="#">WG1653278</a> |



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## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 93.5   |           | 1        | 04/15/2021 15:52     | <a href="#">WG1652297</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Chloride | 17.7               | J         | 9.84            | 21.4            | 1        | 04/18/2021 17:54     | <a href="#">WG1651744</a> |

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

| Analyte                         | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U                  |           | 0.0232          | 0.107           | 1        | 04/18/2021 23:17     | <a href="#">WG1653328</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.2               |           |                 | 77.0-120        |          | 04/18/2021 23:17     | <a href="#">WG1653328</a> |

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

| Analyte                   | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | 0.00110            | J         | 0.000533        | 0.00114         | 1        | 04/15/2021 00:55     | <a href="#">WG1651716</a> |
| Toluene                   | U                  |           | 0.00148         | 0.00570         | 1        | 04/15/2021 00:55     | <a href="#">WG1651716</a> |
| Ethylbenzene              | U                  |           | 0.000841        | 0.00285         | 1        | 04/15/2021 00:55     | <a href="#">WG1651716</a> |
| Total Xylenes             | U                  |           | 0.00100         | 0.00741         | 1        | 04/15/2021 00:55     | <a href="#">WG1651716</a> |
| (S) Toluene-d8            | 116                |           |                 | 75.0-131        |          | 04/15/2021 00:55     | <a href="#">WG1651716</a> |
| (S) 4-Bromofluorobenzene  | 112                |           |                 | 67.0-138        |          | 04/15/2021 00:55     | <a href="#">WG1651716</a> |
| (S) 1,2-Dichloroethane-d4 | 102                |           |                 | 70.0-130        |          | 04/15/2021 00:55     | <a href="#">WG1651716</a> |

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

| Analyte              | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U                  |           | 1.72            | 4.28            | 1        | 04/17/2021 09:20     | <a href="#">WG1653278</a> |
| C28-C40 Oil Range    | 0.893              | J         | 0.293           | 4.28            | 1        | 04/17/2021 09:20     | <a href="#">WG1653278</a> |
| (S) o-Terphenyl      | 54.0               |           |                 | 18.0-148        |          | 04/17/2021 09:20     | <a href="#">WG1653278</a> |

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## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 83.6   |           | 1        | 04/15/2021 15:52     | <a href="#">WG1652297</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Chloride | 5700               |           | 110             | 239             | 10       | 04/18/2021 18:04     | <a href="#">WG1651744</a> |

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

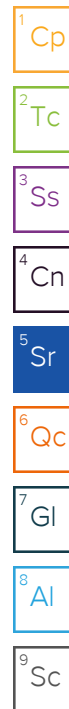
| Analyte                         | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U                  |           | 0.0260          | 0.120           | 1        | 04/18/2021 23:45     | <a href="#">WG1653328</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.3               |           |                 | 77.0-120        |          | 04/18/2021 23:45     | <a href="#">WG1653328</a> |

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

| Analyte                   | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | U                  |           | 0.000652        | 0.00140         | 1        | 04/15/2021 01:13     | <a href="#">WG1651716</a> |
| Toluene                   | U                  |           | 0.00181         | 0.00698         | 1        | 04/15/2021 01:13     | <a href="#">WG1651716</a> |
| Ethylbenzene              | U                  |           | 0.00103         | 0.00349         | 1        | 04/15/2021 01:13     | <a href="#">WG1651716</a> |
| Total Xylenes             | U                  |           | 0.00123         | 0.00907         | 1        | 04/15/2021 01:13     | <a href="#">WG1651716</a> |
| (S) Toluene-d8            | 116                |           |                 | 75.0-131        |          | 04/15/2021 01:13     | <a href="#">WG1651716</a> |
| (S) 4-Bromofluorobenzene  | 110                |           |                 | 67.0-138        |          | 04/15/2021 01:13     | <a href="#">WG1651716</a> |
| (S) 1,2-Dichloroethane-d4 | 102                |           |                 | 70.0-130        |          | 04/15/2021 01:13     | <a href="#">WG1651716</a> |

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

| Analyte              | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 7.36               |           | 1.93            | 4.79            | 1        | 04/17/2021 10:27     | <a href="#">WG1653278</a> |
| C28-C40 Oil Range    | 20.2               |           | 0.328           | 4.79            | 1        | 04/17/2021 10:27     | <a href="#">WG1653278</a> |
| (S) o-Terphenyl      | 58.6               |           |                 | 18.0-148        |          | 04/17/2021 10:27     | <a href="#">WG1653278</a> |



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## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 88.1   |           | 1        | 04/15/2021 15:52     | <a href="#">WG1652297</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Chloride | 3250         |           | 104       | 227       | 10       | 04/18/2021 18:14     | <a href="#">WG1651744</a> |

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

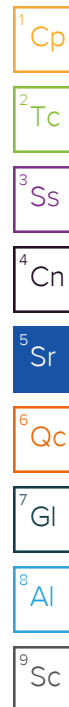
| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            |           | 0.0246    | 0.114     | 1        | 04/19/2021 00:18     | <a href="#">WG1653328</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.3         |           |           | 77.0-120  |          | 04/19/2021 00:18     | <a href="#">WG1653328</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000594  | 0.00127   | 1        | 04/15/2021 01:32     | <a href="#">WG1651716</a> |
| Toluene                   | U            |           | 0.00165   | 0.00636   | 1        | 04/15/2021 01:32     | <a href="#">WG1651716</a> |
| Ethylbenzene              | U            |           | 0.000938  | 0.00318   | 1        | 04/15/2021 01:32     | <a href="#">WG1651716</a> |
| Total Xylenes             | U            |           | 0.00112   | 0.00827   | 1        | 04/15/2021 01:32     | <a href="#">WG1651716</a> |
| (S) Toluene-d8            | 116          |           |           | 75.0-131  |          | 04/15/2021 01:32     | <a href="#">WG1651716</a> |
| (S) 4-Bromofluorobenzene  | 111          |           |           | 67.0-138  |          | 04/15/2021 01:32     | <a href="#">WG1651716</a> |
| (S) 1,2-Dichloroethane-d4 | 105          |           |           | 70.0-130  |          | 04/15/2021 01:32     | <a href="#">WG1651716</a> |

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

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 7.80         |           | 1.83      | 4.54      | 1        | 04/18/2021 12:11     | <a href="#">WG1653278</a> |
| C28-C40 Oil Range    | 16.1         |           | 0.311     | 4.54      | 1        | 04/18/2021 12:11     | <a href="#">WG1653278</a> |
| (S) o-Terphenyl      | 59.6         |           |           | 18.0-148  |          | 04/18/2021 12:11     | <a href="#">WG1653278</a> |



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## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 94.8   |           | 1        | 04/15/2021 15:52     | <a href="#">WG1652297</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Chloride | 552                |           | 9.70            | 21.1            | 1        | 04/18/2021 18:24     | <a href="#">WG1651744</a> |

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

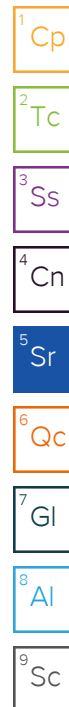
| Analyte                         | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U                  |           | 0.0229          | 0.105           | 1        | 04/19/2021 00:48     | <a href="#">WG1653328</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 97.8               |           |                 | 77.0-120        |          | 04/19/2021 00:48     | <a href="#">WG1653328</a> |

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

| Analyte                   | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | U                  |           | 0.000518        | 0.00111         | 1        | 04/15/2021 01:51     | <a href="#">WG1651716</a> |
| Toluene                   | U                  |           | 0.00144         | 0.00555         | 1        | 04/15/2021 01:51     | <a href="#">WG1651716</a> |
| Ethylbenzene              | U                  |           | 0.000817        | 0.00277         | 1        | 04/15/2021 01:51     | <a href="#">WG1651716</a> |
| Total Xylenes             | U                  |           | 0.000976        | 0.00721         | 1        | 04/15/2021 01:51     | <a href="#">WG1651716</a> |
| (S) Toluene-d8            | 116                |           |                 | 75.0-131        |          | 04/15/2021 01:51     | <a href="#">WG1651716</a> |
| (S) 4-Bromofluorobenzene  | 111                |           |                 | 67.0-138        |          | 04/15/2021 01:51     | <a href="#">WG1651716</a> |
| (S) 1,2-Dichloroethane-d4 | 105                |           |                 | 70.0-130        |          | 04/15/2021 01:51     | <a href="#">WG1651716</a> |

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

| Analyte              | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U                  |           | 1.70            | 4.22            | 1        | 04/17/2021 09:33     | <a href="#">WG1653278</a> |
| C28-C40 Oil Range    | 2.86               | J         | 0.289           | 4.22            | 1        | 04/17/2021 09:33     | <a href="#">WG1653278</a> |
| (S) o-Terphenyl      | 60.1               |           |                 | 18.0-148        |          | 04/17/2021 09:33     | <a href="#">WG1653278</a> |



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## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 96.1   |           | 1        | 04/15/2021 14:25     | <a href="#">WG1652301</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Chloride | 376          |           | 9.58      | 20.8      | 1        | 04/18/2021 18:33     | <a href="#">WG1651744</a> |

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

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | 0.0523       | J         | 0.0226    | 0.104     | 1        | 04/19/2021 07:34     | <a href="#">WG1654174</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 97.5         |           |           | 77.0-120  |          | 04/19/2021 07:34     | <a href="#">WG1654174</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000505  | 0.00108   | 1        | 04/15/2021 02:10     | <a href="#">WG1651716</a> |
| Toluene                   | U            |           | 0.00141   | 0.00541   | 1        | 04/15/2021 02:10     | <a href="#">WG1651716</a> |
| Ethylbenzene              | U            |           | 0.000798  | 0.00271   | 1        | 04/15/2021 02:10     | <a href="#">WG1651716</a> |
| Total Xylenes             | U            |           | 0.000952  | 0.00703   | 1        | 04/15/2021 02:10     | <a href="#">WG1651716</a> |
| (S) Toluene-d8            | 118          |           |           | 75.0-131  |          | 04/15/2021 02:10     | <a href="#">WG1651716</a> |
| (S) 4-Bromofluorobenzene  | 111          |           |           | 67.0-138  |          | 04/15/2021 02:10     | <a href="#">WG1651716</a> |
| (S) 1,2-Dichloroethane-d4 | 98.8         |           |           | 70.0-130  |          | 04/15/2021 02:10     | <a href="#">WG1651716</a> |

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

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U            |           | 1.68      | 4.16      | 1        | 04/17/2021 10:13     | <a href="#">WG1653278</a> |
| C28-C40 Oil Range    | 2.43         | J         | 0.285     | 4.16      | 1        | 04/17/2021 10:13     | <a href="#">WG1653278</a> |
| (S) o-Terphenyl      | 62.4         |           |           | 18.0-148  |          | 04/17/2021 10:13     | <a href="#">WG1653278</a> |



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## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 86.5   |           | 1        | 04/15/2021 14:25     | <a href="#">WG1652301</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Chloride | 337                |           | 10.6            | 23.1            | 1        | 04/18/2021 19:38     | <a href="#">WG1651744</a> |

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

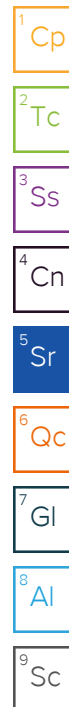
| Analyte                         | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | 0.107              | J         | 0.0251          | 0.116           | 1        | 04/19/2021 08:02     | <a href="#">WG1654174</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 96.9               |           |                 | 77.0-120        |          | 04/19/2021 08:02     | <a href="#">WG1654174</a> |

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

| Analyte                   | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | U                  |           | 0.000613        | 0.00131         | 1        | 04/15/2021 02:29     | <a href="#">WG1651716</a> |
| Toluene                   | U                  |           | 0.00171         | 0.00656         | 1        | 04/15/2021 02:29     | <a href="#">WG1651716</a> |
| Ethylbenzene              | U                  |           | 0.000967        | 0.00328         | 1        | 04/15/2021 02:29     | <a href="#">WG1651716</a> |
| Total Xylenes             | U                  |           | 0.00115         | 0.00853         | 1        | 04/15/2021 02:29     | <a href="#">WG1651716</a> |
| (S) Toluene-d8            | 116                |           |                 | 75.0-131        |          | 04/15/2021 02:29     | <a href="#">WG1651716</a> |
| (S) 4-Bromofluorobenzene  | 111                |           |                 | 67.0-138        |          | 04/15/2021 02:29     | <a href="#">WG1651716</a> |
| (S) 1,2-Dichloroethane-d4 | 106                |           |                 | 70.0-130        |          | 04/15/2021 02:29     | <a href="#">WG1651716</a> |

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

| Analyte              | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 6.02               |           | 1.86            | 4.62            | 1        | 04/17/2021 10:54     | <a href="#">WG1653278</a> |
| C28-C40 Oil Range    | 28.1               |           | 0.317           | 4.62            | 1        | 04/17/2021 10:54     | <a href="#">WG1653278</a> |
| (S) o-Terphenyl      | 61.9               |           |                 | 18.0-148        |          | 04/17/2021 10:54     | <a href="#">WG1653278</a> |



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## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 95.2   |           | 1        | 04/15/2021 14:25     | <a href="#">WG1652301</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Chloride | 1080         |           | 48.3      | 105       | 5        | 04/18/2021 19:47     | <a href="#">WG1651744</a> |

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

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            |           | 0.0228    | 0.105     | 1        | 04/19/2021 08:31     | <a href="#">WG1654174</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.2         |           |           | 77.0-120  |          | 04/19/2021 08:31     | <a href="#">WG1654174</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000515  | 0.00110   | 1        | 04/15/2021 02:47     | <a href="#">WG1651716</a> |
| Toluene                   | U            |           | 0.00143   | 0.00551   | 1        | 04/15/2021 02:47     | <a href="#">WG1651716</a> |
| Ethylbenzene              | U            |           | 0.000812  | 0.00275   | 1        | 04/15/2021 02:47     | <a href="#">WG1651716</a> |
| Total Xylenes             | U            |           | 0.000970  | 0.00716   | 1        | 04/15/2021 02:47     | <a href="#">WG1651716</a> |
| (S) Toluene-d8            | 117          |           |           | 75.0-131  |          | 04/15/2021 02:47     | <a href="#">WG1651716</a> |
| (S) 4-Bromofluorobenzene  | 109          |           |           | 67.0-138  |          | 04/15/2021 02:47     | <a href="#">WG1651716</a> |
| (S) 1,2-Dichloroethane-d4 | 104          |           |           | 70.0-130  |          | 04/15/2021 02:47     | <a href="#">WG1651716</a> |

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

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 2.61         | J         | 1.69      | 4.20      | 1        | 04/18/2021 13:31     | <a href="#">WG1653280</a> |
| C28-C40 Oil Range    | 7.20         |           | 0.288     | 4.20      | 1        | 04/18/2021 13:31     | <a href="#">WG1653280</a> |
| (S) o-Terphenyl      | 67.7         |           |           | 18.0-148  |          | 04/18/2021 13:31     | <a href="#">WG1653280</a> |

Collected date/time: 04/08/21 00:00

L1337069

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 94.0   |           | 1        | 04/15/2021 14:25     | <a href="#">WG1652301</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Chloride | 428                |           | 9.79            | 21.3            | 1        | 04/18/2021 19:57     | <a href="#">WG1651744</a> |

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

| Analyte                         | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U                  |           | 0.0231          | 0.106           | 1        | 04/19/2021 08:59     | <a href="#">WG1654174</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 98.1               |           |                 | 77.0-120        |          | 04/19/2021 08:59     | <a href="#">WG1654174</a> |

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

| Analyte                   | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | U                  |           | 0.000527        | 0.00113         | 1        | 04/15/2021 03:06     | <a href="#">WG1651716</a> |
| Toluene                   | U                  |           | 0.00147         | 0.00565         | 1        | 04/15/2021 03:06     | <a href="#">WG1651716</a> |
| Ethylbenzene              | U                  |           | 0.000832        | 0.00282         | 1        | 04/15/2021 03:06     | <a href="#">WG1651716</a> |
| Total Xylenes             | U                  |           | 0.000994        | 0.00734         | 1        | 04/15/2021 03:06     | <a href="#">WG1651716</a> |
| (S) Toluene-d8            | 115                |           |                 | 75.0-131        |          | 04/15/2021 03:06     | <a href="#">WG1651716</a> |
| (S) 4-Bromofluorobenzene  | 111                |           |                 | 67.0-138        |          | 04/15/2021 03:06     | <a href="#">WG1651716</a> |
| (S) 1,2-Dichloroethane-d4 | 102                |           |                 | 70.0-130        |          | 04/15/2021 03:06     | <a href="#">WG1651716</a> |

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

| Analyte              | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 6.58               |           | 1.71            | 4.26            | 1        | 04/17/2021 22:39     | <a href="#">WG1653280</a> |
| C28-C40 Oil Range    | 13.2               |           | 0.292           | 4.26            | 1        | 04/17/2021 22:39     | <a href="#">WG1653280</a> |
| (S) o-Terphenyl      | 68.8               |           |                 | 18.0-148        |          | 04/17/2021 22:39     | <a href="#">WG1653280</a> |

Collected date/time: 04/08/21 00:00

L1337069

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 94.6   |           | 1        | 04/15/2021 14:25     | <a href="#">WG1652301</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Chloride | 493          |           | 9.72      | 21.1      | 1        | 04/18/2021 20:07     | <a href="#">WG1651744</a> |

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

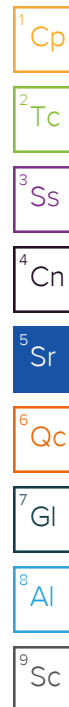
| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | 0.0264       | J         | 0.0229    | 0.106     | 1        | 04/19/2021 09:27     | <a href="#">WG1654174</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 97.6         |           |           | 77.0-120  |          | 04/19/2021 09:27     | <a href="#">WG1654174</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000520  | 0.00111   | 1        | 04/15/2021 03:25     | <a href="#">WG1651716</a> |
| Toluene                   | U            |           | 0.00145   | 0.00557   | 1        | 04/15/2021 03:25     | <a href="#">WG1651716</a> |
| Ethylbenzene              | U            |           | 0.000821  | 0.00278   | 1        | 04/15/2021 03:25     | <a href="#">WG1651716</a> |
| Total Xylenes             | U            |           | 0.000980  | 0.00724   | 1        | 04/15/2021 03:25     | <a href="#">WG1651716</a> |
| (S) Toluene-d8            | 116          |           |           | 75.0-131  |          | 04/15/2021 03:25     | <a href="#">WG1651716</a> |
| (S) 4-Bromofluorobenzene  | 112          |           |           | 67.0-138  |          | 04/15/2021 03:25     | <a href="#">WG1651716</a> |
| (S) 1,2-Dichloroethane-d4 | 106          |           |           | 70.0-130  |          | 04/15/2021 03:25     | <a href="#">WG1651716</a> |

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

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 3.10         | J         | 1.70      | 4.23      | 1        | 04/18/2021 13:18     | <a href="#">WG1653280</a> |
| C28-C40 Oil Range    | 8.09         |           | 0.290     | 4.23      | 1        | 04/18/2021 13:18     | <a href="#">WG1653280</a> |
| (S) o-Terphenyl      | 69.8         |           |           | 18.0-148  |          | 04/18/2021 13:18     | <a href="#">WG1653280</a> |



Collected date/time: 04/08/21 00:00

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## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 96.0   |           | 1        | 04/15/2021 14:25 | <a href="#">WG1652301</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Chloride | 88.8         |           | 9.58      | 20.8      | 1        | 04/15/2021 21:57 | <a href="#">WG1651745</a> |

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

| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                                 | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction       | U            |           | 0.0226    | 0.104     | 1        | 04/18/2021 00:12 | <a href="#">WG1653738</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 90.8         |           |           | 77.0-120  |          | 04/18/2021 00:12 | <a href="#">WG1653738</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                           | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Benzene                   | U            |           | 0.000506  | 0.00108   | 1        | 04/15/2021 03:44 | <a href="#">WG1651716</a> |
| Toluene                   | U            |           | 0.00141   | 0.00542   | 1        | 04/15/2021 03:44 | <a href="#">WG1651716</a> |
| Ethylbenzene              | U            |           | 0.000799  | 0.00271   | 1        | 04/15/2021 03:44 | <a href="#">WG1651716</a> |
| Total Xylenes             | U            |           | 0.000954  | 0.00704   | 1        | 04/15/2021 03:44 | <a href="#">WG1651716</a> |
| (S) Toluene-d8            | 116          |           |           | 75.0-131  |          | 04/15/2021 03:44 | <a href="#">WG1651716</a> |
| (S) 4-Bromofluorobenzene  | 106          |           |           | 67.0-138  |          | 04/15/2021 03:44 | <a href="#">WG1651716</a> |
| (S) 1,2-Dichloroethane-d4 | 102          |           |           | 70.0-130  |          | 04/15/2021 03:44 | <a href="#">WG1651716</a> |

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

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                      | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range | 4.32         |           | 1.68      | 4.17      | 1        | 04/17/2021 23:05 | <a href="#">WG1653280</a> |
| C28-C40 Oil Range    | 14.6         |           | 0.285     | 4.17      | 1        | 04/17/2021 23:05 | <a href="#">WG1653280</a> |
| (S) o-Terphenyl      | 64.3         |           |           | 18.0-148  |          | 04/17/2021 23:05 | <a href="#">WG1653280</a> |

Collected date/time: 04/08/21 00:00

L1337069

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 96.7   |           | 1        | 04/15/2021 14:25     | <a href="#">WG1652301</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Chloride | 72.5               |           | 9.51            | 20.7            | 1        | 04/15/2021 22:06     | <a href="#">WG1651745</a> |

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

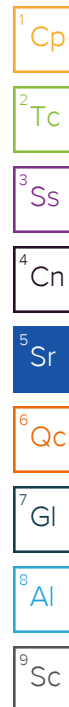
| Analyte                         | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U                  |           | 0.0224          | 0.103           | 1        | 04/18/2021 00:34     | <a href="#">WG1653738</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 92.2               |           |                 | 77.0-120        |          | 04/18/2021 00:34     | <a href="#">WG1653738</a> |

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

| Analyte                   | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | U                  |           | 0.000498        | 0.00107         | 1        | 04/15/2021 04:03     | <a href="#">WG1651716</a> |
| Toluene                   | U                  |           | 0.00139         | 0.00534         | 1        | 04/15/2021 04:03     | <a href="#">WG1651716</a> |
| Ethylbenzene              | U                  |           | 0.000787        | 0.00267         | 1        | 04/15/2021 04:03     | <a href="#">WG1651716</a> |
| Total Xylenes             | U                  |           | 0.000939        | 0.00694         | 1        | 04/15/2021 04:03     | <a href="#">WG1651716</a> |
| (S) Toluene-d8            | 115                |           |                 | 75.0-131        |          | 04/15/2021 04:03     | <a href="#">WG1651716</a> |
| (S) 4-Bromofluorobenzene  | 109                |           |                 | 67.0-138        |          | 04/15/2021 04:03     | <a href="#">WG1651716</a> |
| (S) 1,2-Dichloroethane-d4 | 99.1               |           |                 | 70.0-130        |          | 04/15/2021 04:03     | <a href="#">WG1651716</a> |

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

| Analyte              | Result (dry) mg/kg | Qualifier         | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------------|-------------------|-----------------|-----------------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 1.71               | <a href="#">J</a> | 1.66            | 4.13            | 1        | 04/18/2021 13:58     | <a href="#">WG1653280</a> |
| C28-C40 Oil Range    | 4.43               | <a href="#">B</a> | 0.283           | 4.13            | 1        | 04/18/2021 13:58     | <a href="#">WG1653280</a> |
| (S) o-Terphenyl      | 60.1               |                   |                 | 18.0-148        |          | 04/18/2021 13:58     | <a href="#">WG1653280</a> |





Collected date/time: 04/08/21 00:00

L1337069

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 96.4   |           | 1        | 04/15/2021 14:25     | <a href="#">WG1652301</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Chloride | 139                |           | 9.54            | 20.7            | 1        | 04/15/2021 22:16     | <a href="#">WG1651745</a> |

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

| Analyte                         | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U                  |           | 0.0225          | 0.104           | 1        | 04/18/2021 00:56     | <a href="#">WG1653738</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 93.0               |           |                 | 77.0-120        |          | 04/18/2021 00:56     | <a href="#">WG1653738</a> |

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

| Analyte                   | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | U                  |           | 0.000502        | 0.00107         | 1        | 04/15/2021 04:22     | <a href="#">WG1651716</a> |
| Toluene                   | U                  |           | 0.00140         | 0.00537         | 1        | 04/15/2021 04:22     | <a href="#">WG1651716</a> |
| Ethylbenzene              | U                  |           | 0.000792        | 0.00269         | 1        | 04/15/2021 04:22     | <a href="#">WG1651716</a> |
| Total Xylenes             | U                  |           | 0.000946        | 0.00699         | 1        | 04/15/2021 04:22     | <a href="#">WG1651716</a> |
| (S) Toluene-d8            | 117                |           |                 | 75.0-131        |          | 04/15/2021 04:22     | <a href="#">WG1651716</a> |
| (S) 4-Bromofluorobenzene  | 110                |           |                 | 67.0-138        |          | 04/15/2021 04:22     | <a href="#">WG1651716</a> |
| (S) 1,2-Dichloroethane-d4 | 102                |           |                 | 70.0-130        |          | 04/15/2021 04:22     | <a href="#">WG1651716</a> |

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

| Analyte              | Result (dry) mg/kg | Qualifier           | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------------|---------------------|-----------------|-----------------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U                  |                     | 1.67            | 4.15            | 1        | 04/17/2021 23:31     | <a href="#">WG1653280</a> |
| C28-C40 Oil Range    | 3.93               | <a href="#">B J</a> | 0.284           | 4.15            | 1        | 04/17/2021 23:31     | <a href="#">WG1653280</a> |
| (S) o-Terphenyl      | 66.4               |                     |                 | 18.0-148        |          | 04/17/2021 23:31     | <a href="#">WG1653280</a> |

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

Collected date/time: 04/08/21 00:00

L1337069

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis         | Batch                     |
|--------------|--------|-----------|----------|------------------|---------------------------|
|              | %      |           |          | date / time      |                           |
| Total Solids | 93.2   |           | 1        | 04/15/2021 14:25 | <a href="#">WG1652301</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|          | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Chloride | 310          |           | 9.87      | 21.5      | 1        | 04/15/2021 22:25 | <a href="#">WG1651745</a> |

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

| Analyte                            | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|------------------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                                    | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| TPH (GC/FID) Low Fraction          | U            |           | 0.0233    | 0.107     | 1        | 04/18/2021 01:18 | <a href="#">WG1653738</a> |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 92.5         |           |           | 77.0-120  |          | 04/18/2021 01:18 | <a href="#">WG1653738</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|------------------|---------------------------|
|                           | mg/kg        |           | mg/kg     | mg/kg     |          | date / time      |                           |
| Benzene                   | U            |           | 0.000535  | 0.00115   | 1        | 04/15/2021 04:41 | <a href="#">WG1651716</a> |
| Toluene                   | U            |           | 0.00149   | 0.00573   | 1        | 04/15/2021 04:41 | <a href="#">WG1651716</a> |
| Ethylbenzene              | U            |           | 0.000845  | 0.00287   | 1        | 04/15/2021 04:41 | <a href="#">WG1651716</a> |
| Total Xylenes             | U            |           | 0.00101   | 0.00745   | 1        | 04/15/2021 04:41 | <a href="#">WG1651716</a> |
| (S) Toluene-d8            | 115          |           |           | 75.0-131  |          | 04/15/2021 04:41 | <a href="#">WG1651716</a> |
| (S) 4-Bromofluorobenzene  | 111          |           |           | 67.0-138  |          | 04/15/2021 04:41 | <a href="#">WG1651716</a> |
| (S) 1,2-Dichloroethane-d4 | 99.0         |           |           | 70.0-130  |          | 04/15/2021 04:41 | <a href="#">WG1651716</a> |

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

| Analyte              | Result (dry) | Qualifier         | MDL (dry) | RDL (dry) | Dilution | Analysis         | Batch                     |
|----------------------|--------------|-------------------|-----------|-----------|----------|------------------|---------------------------|
|                      | mg/kg        |                   | mg/kg     | mg/kg     |          | date / time      |                           |
| C10-C28 Diesel Range | 1.97         | <a href="#">J</a> | 1.73      | 4.29      | 1        | 04/17/2021 23:44 | <a href="#">WG1653280</a> |
| C28-C40 Oil Range    | 4.37         | <a href="#">B</a> | 0.294     | 4.29      | 1        | 04/17/2021 23:44 | <a href="#">WG1653280</a> |
| (S) o-Terphenyl      | 66.7         |                   |           | 18.0-148  |          | 04/17/2021 23:44 | <a href="#">WG1653280</a> |

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

Collected date/time: 04/08/21 00:00

L1337069

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 91.9   |           | 1        | 04/15/2021 14:25     | <a href="#">WG1652301</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Chloride | 93.0         |           | 10.0      | 21.8      | 1        | 04/15/2021 22:35     | <a href="#">WG1651745</a> |

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

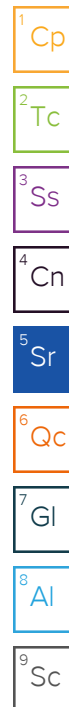
| Analyte                         | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U            |           | 0.0236    | 0.109     | 1        | 04/18/2021 01:40     | <a href="#">WG1653738</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 91.3         |           |           | 77.0-120  |          | 04/18/2021 01:40     | <a href="#">WG1653738</a> |

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

| Analyte                   | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| Benzene                   | U            |           | 0.000549  | 0.00118   | 1        | 04/15/2021 04:59     | <a href="#">WG1651716</a> |
| Toluene                   | U            |           | 0.00153   | 0.00588   | 1        | 04/15/2021 04:59     | <a href="#">WG1651716</a> |
| Ethylbenzene              | U            |           | 0.000867  | 0.00294   | 1        | 04/15/2021 04:59     | <a href="#">WG1651716</a> |
| Total Xylenes             | U            |           | 0.00103   | 0.00764   | 1        | 04/15/2021 04:59     | <a href="#">WG1651716</a> |
| (S) Toluene-d8            | 115          |           |           | 75.0-131  |          | 04/15/2021 04:59     | <a href="#">WG1651716</a> |
| (S) 4-Bromofluorobenzene  | 108          |           |           | 67.0-138  |          | 04/15/2021 04:59     | <a href="#">WG1651716</a> |
| (S) 1,2-Dichloroethane-d4 | 103          |           |           | 70.0-130  |          | 04/15/2021 04:59     | <a href="#">WG1651716</a> |

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

| Analyte              | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------|-----------|-----------|-----------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 5.93         |           | 1.75      | 4.35      | 1        | 04/17/2021 23:57     | <a href="#">WG1653280</a> |
| C28-C40 Oil Range    | 20.3         |           | 0.298     | 4.35      | 1        | 04/17/2021 23:57     | <a href="#">WG1653280</a> |
| (S) o-Terphenyl      | 68.2         |           |           | 18.0-148  |          | 04/17/2021 23:57     | <a href="#">WG1653280</a> |



Collected date/time: 04/08/21 00:00

L1337069

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 97.7   |           | 1        | 04/15/2021 14:13     | <a href="#">WG1652302</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) mg/kg | Qualifier          | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------|--------------------|--------------------|-----------------|-----------------|----------|----------------------|---------------------------|
| Chloride | 140                | <a href="#">J3</a> | 9.42            | 20.5            | 1        | 04/15/2021 22:44     | <a href="#">WG1651745</a> |

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

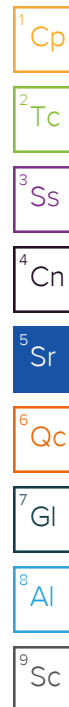
| Analyte                         | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U                  |           | 0.0222          | 0.102           | 1        | 04/18/2021 02:01     | <a href="#">WG1653738</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 92.3               |           |                 | 77.0-120        |          | 04/18/2021 02:01     | <a href="#">WG1653738</a> |

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

| Analyte                   | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | U                  |           | 0.000490        | 0.00105         | 1        | 04/15/2021 05:18     | <a href="#">WG1651716</a> |
| Toluene                   | U                  |           | 0.00136         | 0.00524         | 1        | 04/15/2021 05:18     | <a href="#">WG1651716</a> |
| Ethylbenzene              | U                  |           | 0.000773        | 0.00262         | 1        | 04/15/2021 05:18     | <a href="#">WG1651716</a> |
| Total Xylenes             | U                  |           | 0.000922        | 0.00681         | 1        | 04/15/2021 05:18     | <a href="#">WG1651716</a> |
| (S) Toluene-d8            | 115                |           |                 | 75.0-131        |          | 04/15/2021 05:18     | <a href="#">WG1651716</a> |
| (S) 4-Bromofluorobenzene  | 109                |           |                 | 67.0-138        |          | 04/15/2021 05:18     | <a href="#">WG1651716</a> |
| (S) 1,2-Dichloroethane-d4 | 103                |           |                 | 70.0-130        |          | 04/15/2021 05:18     | <a href="#">WG1651716</a> |

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

| Analyte              | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 4.21               |           | 1.65            | 4.10            | 1        | 04/18/2021 14:12     | <a href="#">WG1653280</a> |
| C28-C40 Oil Range    | 10.4               |           | 0.281           | 4.10            | 1        | 04/18/2021 14:12     | <a href="#">WG1653280</a> |
| (S) o-Terphenyl      | 63.5               |           |                 | 18.0-148        |          | 04/18/2021 14:12     | <a href="#">WG1653280</a> |



Collected date/time: 04/08/21 00:00

L1337069

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 94.5   |           | 1        | 04/15/2021 14:13     | <a href="#">WG1652302</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Chloride | 144                |           | 9.74            | 21.2            | 1        | 04/15/2021 23:03     | <a href="#">WG1651745</a> |

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

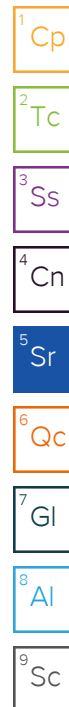
| Analyte                         | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U                  |           | 0.0230          | 0.106           | 1        | 04/18/2021 02:23     | <a href="#">WG1653738</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 92.7               |           |                 | 77.0-120        |          | 04/18/2021 02:23     | <a href="#">WG1653738</a> |

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

| Analyte                   | Result (dry) mg/kg | Qualifier          | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|--------------------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | U                  |                    | 0.000522        | 0.00112         | 1        | 04/15/2021 05:37     | <a href="#">WG1651716</a> |
| Toluene                   | U                  |                    | 0.00145         | 0.00558         | 1        | 04/15/2021 05:37     | <a href="#">WG1651716</a> |
| Ethylbenzene              | U                  | <a href="#">J3</a> | 0.000823        | 0.00279         | 1        | 04/15/2021 05:37     | <a href="#">WG1651716</a> |
| Total Xylenes             | U                  |                    | 0.000983        | 0.00726         | 1        | 04/15/2021 05:37     | <a href="#">WG1651716</a> |
| (S) Toluene-d8            | 117                |                    |                 | 75.0-131        |          | 04/15/2021 05:37     | <a href="#">WG1651716</a> |
| (S) 4-Bromofluorobenzene  | 110                |                    |                 | 67.0-138        |          | 04/15/2021 05:37     | <a href="#">WG1651716</a> |
| (S) 1,2-Dichloroethane-d4 | 95.9               |                    |                 | 70.0-130        |          | 04/15/2021 05:37     | <a href="#">WG1651716</a> |

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

| Analyte              | Result (dry) mg/kg | Qualifier         | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------------|-------------------|-----------------|-----------------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | 3.24               | <a href="#">J</a> | 1.70            | 4.23            | 1        | 04/18/2021 13:45     | <a href="#">WG1653280</a> |
| C28-C40 Oil Range    | 5.62               | <a href="#">B</a> | 0.290           | 4.23            | 1        | 04/18/2021 13:45     | <a href="#">WG1653280</a> |
| (S) o-Terphenyl      | 68.2               |                   |                 | 18.0-148        |          | 04/18/2021 13:45     | <a href="#">WG1653280</a> |



Collected date/time: 04/08/21 00:00

L1337069

## Total Solids by Method 2540 G-2011

| Analyte      | Result | Qualifier | Dilution | Analysis date / time | Batch                     |
|--------------|--------|-----------|----------|----------------------|---------------------------|
| Total Solids | 96.6   |           | 1        | 04/15/2021 14:13     | <a href="#">WG1652302</a> |

## Wet Chemistry by Method 300.0

| Analyte  | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Chloride | 85.8               |           | 9.52            | 20.7            | 1        | 04/15/2021 23:32     | <a href="#">WG1651745</a> |

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

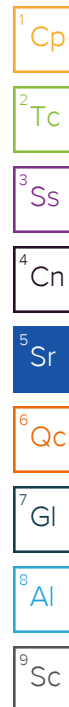
| Analyte                         | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| TPH (GC/FID) Low Fraction       | U                  |           | 0.0225          | 0.103           | 1        | 04/18/2021 02:47     | <a href="#">WG1653738</a> |
| (S) a,a,a-Trifluorotoluene(FID) | 92.5               |           |                 | 77.0-120        |          | 04/18/2021 02:47     | <a href="#">WG1653738</a> |

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

| Analyte                   | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|---------------------------|--------------------|-----------|-----------------|-----------------|----------|----------------------|---------------------------|
| Benzene                   | U                  |           | 0.000500        | 0.00107         | 1        | 04/15/2021 05:15     | <a href="#">WG1651718</a> |
| Toluene                   | U                  |           | 0.00139         | 0.00535         | 1        | 04/15/2021 05:15     | <a href="#">WG1651718</a> |
| Ethylbenzene              | U                  |           | 0.000789        | 0.00268         | 1        | 04/15/2021 05:15     | <a href="#">WG1651718</a> |
| Total Xylenes             | U                  |           | 0.000942        | 0.00696         | 1        | 04/15/2021 05:15     | <a href="#">WG1651718</a> |
| (S) Toluene-d8            | 106                |           |                 | 75.0-131        |          | 04/15/2021 05:15     | <a href="#">WG1651718</a> |
| (S) 4-Bromofluorobenzene  | 106                |           |                 | 67.0-138        |          | 04/15/2021 05:15     | <a href="#">WG1651718</a> |
| (S) 1,2-Dichloroethane-d4 | 94.8               |           |                 | 70.0-130        |          | 04/15/2021 05:15     | <a href="#">WG1651718</a> |

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

| Analyte              | Result (dry) mg/kg | Qualifier           | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch                     |
|----------------------|--------------------|---------------------|-----------------|-----------------|----------|----------------------|---------------------------|
| C10-C28 Diesel Range | U                  |                     | 1.67            | 4.14            | 1        | 04/18/2021 00:36     | <a href="#">WG1653280</a> |
| C28-C40 Oil Range    | 3.29               | <a href="#">B J</a> | 0.284           | 4.14            | 1        | 04/18/2021 00:36     | <a href="#">WG1653280</a> |
| (S) o-Terphenyl      | 67.3               |                     |                 | 18.0-148        |          | 04/18/2021 00:36     | <a href="#">WG1653280</a> |





Total Solids by Method 2540 G-2011 [L1337069-01,02,03,04,05](#)

Method Blank (MB)

(MB) R3642653-1 04/15/21 14:10

| Analyte      | MB Result<br>% | <u>MB Qualifier</u> | MB MDL<br>% | MB RDL<br>% |
|--------------|----------------|---------------------|-------------|-------------|
| Total Solids | 0.00100        |                     |             |             |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

L1337066-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1337066-08 04/15/21 14:10 • (DUP) R3642653-3 04/15/21 14:10

| Analyte      | Original Result<br>% | DUP Result<br>% | Dilution | DUP RPD<br>% | <u>DUP Qualifier</u> | DUP RPD<br>Limits |
|--------------|----------------------|-----------------|----------|--------------|----------------------|-------------------|
| Total Solids | 78.6                 | 78.7            | 1        | 0.0267       |                      | 10                |

<sup>7</sup>Gl

<sup>8</sup>Al

Laboratory Control Sample (LCS)

(LCS) R3642653-2 04/15/21 14:10

| Analyte      | Spike Amount<br>% | LCS Result<br>% | LCS Rec.<br>% | Rec. Limits<br>% | <u>LCS Qualifier</u> |
|--------------|-------------------|-----------------|---------------|------------------|----------------------|
| Total Solids | 50.0              | 50.0            | 100           | 85.0-115         |                      |

<sup>9</sup>Sc

Total Solids by Method 2540 G-2011 [L1337069-06,07,08,09,10,11,12,13,14,15](#)

Method Blank (MB)

(MB) R3642744-1 04/15/21 15:52

|              | MB Result | <u>MB Qualifier</u> | MB MDL | MB RDL |
|--------------|-----------|---------------------|--------|--------|
| Analyte      | %         |                     | %      | %      |
| Total Solids | 0.00100   |                     |        |        |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

L1337069-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1337069-09 04/15/21 15:52 • (DUP) R3642744-3 04/15/21 15:52

|              | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte      | %               | %          |          | %       |                      | %              |
| Total Solids | 95.9            | 96.5       | 1        | 0.646   |                      | 10             |

Laboratory Control Sample (LCS)

(LCS) R3642744-2 04/15/21 15:52

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

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

W01052901  
Total Solids by Method 2540 G-2011 [L1337069-16,17,18,19,20,21,22,23,24,25](#)

Method Blank (MB)

(MB) R3642742-1 04/15/21 14:25

|              | MB Result | <u>MB Qualifier</u> | MB MDL | MB RDL |
|--------------|-----------|---------------------|--------|--------|
| Analyte      | %         |                     | %      | %      |
| Total Solids | 0.00100   |                     |        |        |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

L1337069-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1337069-20 04/15/21 14:25 • (DUP) R3642742-3 04/15/21 14:25

|              | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|----------------------|----------------|
| Analyte      | %               | %          |          | %       |                      | %              |
| Total Solids | 94.6            | 94.7       | 1        | 0.0691  |                      | 10             |

<sup>7</sup>Gl

<sup>8</sup>Al

Laboratory Control Sample (LCS)

(LCS) R3642742-2 04/15/21 14:25

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

<sup>9</sup>Sc

Total Solids by Method 2540 G-2011 [L1337069-26,27,28](#)

Method Blank (MB)

(MB) R3642704-1 04/15/21 14:13

| Analyte      | MB Result | <u>MB Qualifier</u> | MB MDL | MB RDL |
|--------------|-----------|---------------------|--------|--------|
|              | %         |                     | %      | %      |
| Total Solids | 0.000     |                     |        |        |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1337069-27 Original Sample (OS) • Duplicate (DUP)

(OS) L1337069-27 04/15/21 14:13 • (DUP) R3642704-3 04/15/21 14:13

| Analyte      | Original Result | DUP Result | Dilution | DUP RPD | <u>DUP Qualifier</u> | DUP RPD Limits |
|--------------|-----------------|------------|----------|---------|----------------------|----------------|
|              | %               | %          |          | %       |                      | %              |
| Total Solids | 94.5            | 95.2       | 1        | 0.703   |                      | 10             |

Laboratory Control Sample (LCS)

(LCS) R3642704-2 04/15/21 14:13

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

Wet Chemistry by Method 300.0

L1337069-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20

Method Blank (MB)

(MB) R3643427-1 04/18/21 15:18

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

L1337069-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1337069-06 04/18/21 16:27 • (DUP) R3643427-3 04/18/21 16:36

| Analyte  | Original Result<br>(dry)<br>mg/kg | DUP Result<br>(dry)<br>mg/kg | Dilution | DUP RPD<br>% | DUP Qualifier | DUP RPD<br>Limits<br>% |
|----------|-----------------------------------|------------------------------|----------|--------------|---------------|------------------------|
| Chloride | 39.1                              | 105                          | 1        | 91.6         | P1            | 20                     |

L1337069-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1337069-16 04/18/21 18:33 • (DUP) R3643427-4 04/18/21 18:50

| Analyte  | Original Result<br>(dry)<br>mg/kg | DUP Result<br>(dry)<br>mg/kg | Dilution | DUP RPD<br>% | DUP Qualifier | DUP RPD<br>Limits<br>% |
|----------|-----------------------------------|------------------------------|----------|--------------|---------------|------------------------|
| Chloride | 376                               | 356                          | 1        | 5.63         |               | 20                     |

Laboratory Control Sample (LCS)

(LCS) R3643427-2 04/18/21 15:28

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

L1337069-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1337069-16 04/18/21 18:33 • (MS) R3643427-5 04/18/21 19:18 • (MSD) R3643427-6 04/18/21 19:28

| Analyte  | Spike Amount<br>(dry)<br>mg/kg | Original Result<br>(dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result<br>(dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------|--------------------------------|-----------------------------------|--------------------------|------------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Chloride | 520                            | 376                               | 855                      | 863                          | 92.0         | 93.5          | 1        | 80.0-120         |              |               | 0.879    | 20              |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0 [L1337069-21,22,23,24,25,26,27,28](#)

Method Blank (MB)

(MB) R3643113-1 04/15/21 20:51

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

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

L1337069-26 Original Sample (OS) • Duplicate (DUP)

(OS) L1337069-26 04/15/21 22:44 • (DUP) R3643113-3 04/15/21 22:54

|          | Original Result (dry) | DUP Result (dry) | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------|-----------------------|------------------|----------|---------|---------------|----------------|
| Analyte  | mg/kg                 | mg/kg            |          | %       |               | %              |
| Chloride | 140                   | 192              | 1        | 31.2    | J3            | 20             |

Laboratory Control Sample (LCS)

(LCS) R3643113-2 04/15/21 21:00

|          | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|----------|--------------|------------|----------|-------------|---------------|
| Analyte  | mg/kg        | mg/kg      | %        | %           |               |
| Chloride | 200          | 207        | 103      | 90.0-110    |               |

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

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

[L1337069-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15](#)

Method Blank (MB)

(MB) R3643572-1 04/18/21 13:44

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| TPH (GC/FID) Low Fraction          | U                  |              | 0.0217          | 0.100           |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 99.4               |              |                 | 77.0-120        |

Laboratory Control Sample (LCS)

(LCS) R3643572-2 04/18/21 15:46

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| TPH (GC/FID) Low Fraction          | 5.50                  | 4.94                | 89.8          | 72.0-127         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     | 105           | 77.0-120         |               |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



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

[L1337069-21,22,23,24,25,26,27,28](#)

Method Blank (MB)

(MB) R3643261-2 04/17/21 22:22

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| TPH (GC/FID) Low Fraction          | U                  |              | 0.0217          | 0.100           |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 98.1               |              |                 | 77.0-120        |

Laboratory Control Sample (LCS)

(LCS) R3643261-1 04/17/21 21:38

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| TPH (GC/FID) Low Fraction          | 5.50                  | 5.48                | 99.6          | 72.0-127         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     | 105           | 77.0-120         |               |

L1337064-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1337064-12 04/17/21 23:50 • (MS) R3643261-3 04/18/21 06:27 • (MSD) R3643261-4 04/18/21 06:49

| Analyte                            | Spike Amount<br>(dry)<br>mg/kg | Original Result<br>(dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result<br>(dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|------------------------------------|--------------------------------|-----------------------------------|--------------------------|------------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| TPH (GC/FID) Low Fraction          | 149                            | U                                 | 137                      | 140                          | 92.3         | 94.3          | 25       | 10.0-151         |              |               | 2.11     | 28              |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                                |                                   |                          |                              | 110          | 111           |          | 77.0-120         |              |               |          |                 |

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

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

[L1337069-16,17,18,19,20](#)

Method Blank (MB)

(MB) R3643573-2 04/19/21 04:08

| Analyte                            | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|------------------------------------|--------------------|--------------|-----------------|-----------------|
| TPH (GC/FID) Low Fraction          | U                  |              | 0.0217          | 0.100           |
| (S)<br>a,a,a-Trifluorotoluene(FID) | 99.3               |              |                 | 77.0-120        |

Laboratory Control Sample (LCS)

(LCS) R3643573-1 04/19/21 03:11

| Analyte                            | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|------------------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| TPH (GC/FID) Low Fraction          | 5.50                  | 5.96                | 108           | 72.0-127         |               |
| (S)<br>a,a,a-Trifluorotoluene(FID) |                       |                     | 107           | 77.0-120         |               |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

L1337069-01,02,03,04,05

Method Blank (MB)

(MB) R3641787-3 04/14/21 10:18

| Analyte                   | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>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            | 113                |              |                 | 75.0-131        |
| (S) 4-Bromofluorobenzene  | 88.6               |              |                 | 67.0-138        |
| (S) 1,2-Dichloroethane-d4 | 95.5               |              |                 | 70.0-130        |

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

(LCS) R3641787-1 04/14/21 09:02 • (LCSD) R3641787-2 04/14/21 09:21

| Analyte                   | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Benzene                   | 0.125                 | 0.109               | 0.114                | 87.2          | 91.2           | 70.0-123         |               |                | 4.48     | 20              |
| Ethylbenzene              | 0.125                 | 0.117               | 0.125                | 93.6          | 100            | 74.0-126         |               |                | 6.61     | 20              |
| Toluene                   | 0.125                 | 0.126               | 0.134                | 101           | 107            | 75.0-121         |               |                | 6.15     | 20              |
| Xylenes, Total            | 0.375                 | 0.348               | 0.365                | 92.8          | 97.3           | 72.0-127         |               |                | 4.77     | 20              |
| (S) Toluene-d8            |                       |                     |                      | 114           | 115            | 75.0-131         |               |                |          |                 |
| (S) 4-Bromofluorobenzene  |                       |                     |                      | 96.6          | 98.3           | 67.0-138         |               |                |          |                 |
| (S) 1,2-Dichloroethane-d4 |                       |                     |                      | 107           | 106            | 70.0-130         |               |                |          |                 |

L1337069-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1337069-05 04/14/21 16:09 • (MS) R3641787-4 04/14/21 18:22 • (MSD) R3641787-5 04/14/21 18:41

| Analyte                   | Spike Amount<br>(dry)<br>mg/kg | Original Result<br>(dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result<br>(dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------------------------|--------------------------------|-----------------------------------|--------------------------|------------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Benzene                   | 0.137                          | U                                 | 0.0812                   | 0.0632                       | 59.3         | 46.1          | 1        | 10.0-149         |              |               | 25.1     | 37              |
| Ethylbenzene              | 0.137                          | U                                 | 0.0852                   | 0.0716                       | 62.2         | 52.2          | 1        | 10.0-160         |              |               | 17.3     | 38              |
| Toluene                   | 0.137                          | U                                 | 0.0883                   | 0.0736                       | 64.4         | 53.7          | 1        | 10.0-156         |              |               | 18.2     | 38              |
| Xylenes, Total            | 0.411                          | 0.00150                           | 0.206                    | 0.171                        | 49.8         | 41.2          | 1        | 10.0-160         |              |               | 18.6     | 38              |
| (S) Toluene-d8            |                                |                                   |                          |                              | 108          | 108           |          | 75.0-131         |              |               |          |                 |
| (S) 4-Bromofluorobenzene  |                                |                                   |                          |                              | 88.9         | 82.3          |          | 67.0-138         |              |               |          |                 |
| (S) 1,2-Dichloroethane-d4 |                                |                                   |                          |                              | 95.0         | 96.9          |          | 70.0-130         |              |               |          |                 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

L1337069-06.07

Method Blank (MB)

(MB) R3642088-3 04/14/21 13:41

| Analyte                   | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|---------------------------|--------------------|--------------|-----------------|-----------------|
| Benzene                   | U                  |              | 0.000467        | 0.00100         |
| Ethylbenzene              | U                  |              | 0.000737        | 0.00250         |
| Toluene                   | U                  |              | 0.00130         | 0.00500         |
| Xylenes, Total            | U                  |              | 0.000880        | 0.00650         |
| (S) Toluene-d8            | 110                |              |                 | 75.0-131        |
| (S) 4-Bromofluorobenzene  | 95.5               |              |                 | 67.0-138        |
| (S) 1,2-Dichloroethane-d4 | 106                |              |                 | 70.0-130        |

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

(LCS) R3642088-1 04/14/21 12:25 • (LCSD) R3642088-2 04/14/21 12:44

| Analyte                   | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Benzene                   | 0.125                 | 0.126               | 0.125                | 101           | 100            | 70.0-123         |               |                | 0.797    | 20              |
| Ethylbenzene              | 0.125                 | 0.133               | 0.135                | 106           | 108            | 74.0-126         |               |                | 1.49     | 20              |
| Toluene                   | 0.125                 | 0.132               | 0.128                | 106           | 102            | 75.0-121         |               |                | 3.08     | 20              |
| Xylenes, Total            | 0.375                 | 0.375               | 0.388                | 100           | 103            | 72.0-127         |               |                | 3.41     | 20              |
| (S) Toluene-d8            |                       |                     |                      | 105           | 105            | 75.0-131         |               |                |          |                 |
| (S) 4-Bromofluorobenzene  |                       |                     |                      | 98.3          | 101            | 67.0-138         |               |                |          |                 |
| (S) 1,2-Dichloroethane-d4 |                       |                     |                      | 116           | 117            | 70.0-130         |               |                |          |                 |

L1337069-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1337069-06 04/14/21 22:46 • (MS) R3642088-4 04/14/21 23:24 • (MSD) R3642088-5 04/14/21 23:43

| Analyte                   | Spike Amount<br>(dry)<br>mg/kg | Original Result<br>(dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result<br>(dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------------------------|--------------------------------|-----------------------------------|--------------------------|------------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Benzene                   | 0.147                          | U                                 | 0.113                    | 0.0736                       | 77.4         | 50.2          | 1        | 10.0-149         |              | J3            | 42.6     | 37              |
| Ethylbenzene              | 0.147                          | U                                 | 0.123                    | 0.0762                       | 83.9         | 52.0          | 1        | 10.0-160         |              | J3            | 46.9     | 38              |
| Toluene                   | 0.147                          | U                                 | 0.121                    | 0.0863                       | 82.3         | 58.9          | 1        | 10.0-156         |              |               | 33.1     | 38              |
| Xylenes, Total            | 0.440                          | U                                 | 0.337                    | 0.236                        | 76.6         | 53.8          | 1        | 10.0-160         |              |               | 35.1     | 38              |
| (S) Toluene-d8            |                                |                                   |                          |                              | 104          | 109           |          | 75.0-131         |              |               |          |                 |
| (S) 4-Bromofluorobenzene  |                                |                                   |                          |                              | 96.9         | 95.4          |          | 67.0-138         |              |               |          |                 |
| (S) 1,2-Dichloroethane-d4 |                                |                                   |                          |                              | 107          | 108           |          | 70.0-130         |              |               |          |                 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

[L1337069-08,09,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27](#)

## Method Blank (MB)

(MB) R3642323-3 04/14/21 22:05

| Analyte                   | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>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            | 116                |              |                 | 75.0-131        |
| (S) 4-Bromofluorobenzene  | 104                |              |                 | 67.0-138        |
| (S) 1,2-Dichloroethane-d4 | 104                |              |                 | 70.0-130        |

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

(LCS) R3642323-1 04/14/21 20:50 • (LCSD) R3642323-2 04/14/21 21:09

| Analyte                   | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCSD Result<br>mg/kg | LCS Rec.<br>% | LCSD Rec.<br>% | Rec. Limits<br>% | LCS Qualifier | LCSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Benzene                   | 0.125                 | 0.104               | 0.109                | 83.2          | 87.2           | 70.0-123         |               |                | 4.69     | 20              |
| Ethylbenzene              | 0.125                 | 0.123               | 0.123                | 98.4          | 98.4           | 74.0-126         |               |                | 0.000    | 20              |
| Toluene                   | 0.125                 | 0.119               | 0.117                | 95.2          | 93.6           | 75.0-121         |               |                | 1.69     | 20              |
| Xylenes, Total            | 0.375                 | 0.361               | 0.379                | 96.3          | 101            | 72.0-127         |               |                | 4.86     | 20              |
| (S) Toluene-d8            |                       |                     |                      | 116           | 111            | 75.0-131         |               |                |          |                 |
| (S) 4-Bromofluorobenzene  |                       |                     |                      | 106           | 112            | 67.0-138         |               |                |          |                 |
| (S) 1,2-Dichloroethane-d4 |                       |                     |                      | 101           | 107            | 70.0-130         |               |                |          |                 |

## L1337069-27 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1337069-27 04/15/21 05:37 • (MS) R3642323-4 04/15/21 05:56 • (MSD) R3642323-5 04/15/21 06:14

| Analyte                   | Spike Amount<br>(dry)<br>mg/kg | Original Result<br>(dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result<br>(dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------------------------|--------------------------------|-----------------------------------|--------------------------|------------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Benzene                   | 0.138                          | U                                 | 0.0766                   | 0.111                        | 55.3         | 80.3          | 1        | 10.0-149         |              |               | 36.9     | 37              |
| Ethylbenzene              | 0.138                          | U                                 | 0.0903                   | 0.134                        | 65.2         | 96.8          | 1        | 10.0-160         |              | J3            | 38.9     | 38              |
| Toluene                   | 0.138                          | U                                 | 0.0905                   | 0.131                        | 65.3         | 94.4          | 1        | 10.0-156         |              |               | 36.4     | 38              |
| Xylenes, Total            | 0.415                          | U                                 | 0.279                    | 0.405                        | 67.2         | 97.6          | 1        | 10.0-160         |              |               | 36.9     | 38              |
| (S) Toluene-d8            |                                |                                   |                          |                              | 114          | 113           |          | 75.0-131         |              |               |          |                 |
| (S) 4-Bromofluorobenzene  |                                |                                   |                          |                              | 109          | 106           |          | 67.0-138         |              |               |          |                 |
| (S) 1,2-Dichloroethane-d4 |                                |                                   |                          |                              | 104          | 97.9          |          | 70.0-130         |              |               |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

[L1337069-28](#)

## Method Blank (MB)

(MB) R3642252-2 04/15/21 03:59

| Analyte                   | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|---------------------------|--------------------|--------------|-----------------|-----------------|
| Benzene                   | U                  |              | 0.000467        | 0.00100         |
| Ethylbenzene              | U                  |              | 0.000737        | 0.00250         |
| Toluene                   | U                  |              | 0.00130         | 0.00500         |
| Xylenes, Total            | U                  |              | 0.000880        | 0.00650         |
| (S) Toluene-d8            | 103                |              |                 | 75.0-131        |
| (S) 4-Bromofluorobenzene  | 102                |              |                 | 67.0-138        |
| (S) 1,2-Dichloroethane-d4 | 94.8               |              |                 | 70.0-130        |

## Laboratory Control Sample (LCS)

(LCS) R3642252-1 04/15/21 03:02

| Analyte                   | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|---------------------------|-----------------------|---------------------|---------------|------------------|---------------|
| Benzene                   | 0.125                 | 0.101               | 80.8          | 70.0-123         |               |
| Ethylbenzene              | 0.125                 | 0.110               | 88.0          | 74.0-126         |               |
| Toluene                   | 0.125                 | 0.105               | 84.0          | 75.0-121         |               |
| Xylenes, Total            | 0.375                 | 0.323               | 86.1          | 72.0-127         |               |
| (S) Toluene-d8            |                       |                     | 104           | 75.0-131         |               |
| (S) 4-Bromofluorobenzene  |                       |                     | 106           | 67.0-138         |               |
| (S) 1,2-Dichloroethane-d4 |                       |                     | 103           | 70.0-130         |               |

## L1337112-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1337112-12 04/15/21 05:53 • (MS) R3642252-3 04/15/21 10:37 • (MSD) R3642252-4 04/15/21 10:55

| Analyte                   | Spike Amount<br>(dry)<br>mg/kg | Original Result<br>(dry) | MS Result (dry) | MSD Result<br>(dry) | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|---------------------------|--------------------------------|--------------------------|-----------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Benzene                   | 0.112                          | 0.000766                 | 0.0884          | 0.118               | 59.1         | 79.4          | 1        | 10.0-149         |              |               | 29.0     | 37              |
| Ethylbenzene              | 0.112                          | 0.00288                  | 0.0932          | 0.129               | 60.9         | 85.4          | 1        | 10.0-160         |              |               | 32.6     | 38              |
| Toluene                   | 0.112                          | 0.00515                  | 0.0905          | 0.126               | 57.6         | 81.3          | 1        | 10.0-156         |              |               | 32.6     | 38              |
| Xylenes, Total            | 0.335                          | 0.0161                   | 0.292           | 0.386               | 62.3         | 83.5          | 1        | 10.0-160         |              |               | 27.7     | 38              |
| (S) Toluene-d8            |                                |                          |                 |                     | 101          | 103           |          | 75.0-131         |              |               |          |                 |
| (S) 4-Bromofluorobenzene  |                                |                          |                 |                     | 101          | 102           |          | 67.0-138         |              |               |          |                 |
| (S) 1,2-Dichloroethane-d4 |                                |                          |                 |                     | 102          | 99.2          |          | 70.0-130         |              |               |          |                 |

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

Semi-Volatile Organic Compounds (GC) by Method 8015

L1337069-01,02

Method Blank (MB)

(MB) R3643008-1 04/16/21 15:30

| Analyte              | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|----------------------|--------------------|--------------|-----------------|-----------------|
| C10-C28 Diesel Range | U                  |              | 1.61            | 4.00            |
| C28-C40 Oil Range    | 1.01               | U            | 0.274           | 4.00            |
| (S) o-Terphenyl      | 59.0               |              |                 | 18.0-148        |

Laboratory Control Sample (LCS)

(LCS) R3643008-2 04/16/21 15:43

| Analyte              | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|----------------------|-----------------------|---------------------|---------------|------------------|---------------|
| C10-C28 Diesel Range | 50.0                  | 37.0                | 74.0          | 50.0-150         |               |
| (S) o-Terphenyl      |                       |                     | 60.5          | 18.0-148         |               |

L1337064-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1337064-09 04/16/21 23:08 • (MS) R3643008-3 04/16/21 23:21 • (MSD) R3643008-4 04/16/21 23:34

| Analyte              | Spike Amount<br>(dry)<br>mg/kg | Original Result<br>(dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result<br>(dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------------------|--------------------------------|-----------------------------------|--------------------------|------------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| C10-C28 Diesel Range | 62.5                           | 2.47                              | 52.1                     | 49.7                         | 79.5         | 75.4          | 1        | 50.0-150         |              |               | 4.77     | 20              |
| (S) o-Terphenyl      |                                |                                   |                          |                              | 31.9         | 34.6          |          | 18.0-148         |              |               |          |                 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Semi-Volatile Organic Compounds (GC) by Method 8015

[L1337069-03,04,05,06,07,08,09,10,11,12,13,14,15,16,17](#)

Method Blank (MB)

(MB) R3643197-1 04/17/21 06:53

| Analyte              | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|----------------------|--------------------|--------------|-----------------|-----------------|
| C10-C28 Diesel Range | U                  |              | 1.61            | 4.00            |
| C28-C40 Oil Range    | U                  |              | 0.274           | 4.00            |
| (S) o-Terphenyl      | 67.0               |              |                 | 18.0-148        |

Laboratory Control Sample (LCS)

(LCS) R3643197-2 04/17/21 07:06

| Analyte              | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|----------------------|-----------------------|---------------------|---------------|------------------|---------------|
| C10-C28 Diesel Range | 50.0                  | 39.5                | 79.0          | 50.0-150         |               |
| (S) o-Terphenyl      |                       |                     | 74.3          | 18.0-148         |               |

L1337069-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1337069-15 04/17/21 09:33 • (MS) R3643197-3 04/17/21 09:47 • (MSD) R3643197-4 04/17/21 10:00

| Analyte              | Spike Amount<br>(dry)<br>mg/kg | Original Result<br>(dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result<br>(dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------------------|--------------------------------|-----------------------------------|--------------------------|------------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| C10-C28 Diesel Range | 52.5                           | U                                 | 36.0                     | 34.5                         | 68.5         | 65.8          | 1        | 50.0-150         |              |               | 4.19     | 20              |
| (S) o-Terphenyl      |                                |                                   |                          |                              | 55.3         | 53.8          |          | 18.0-148         |              |               |          |                 |

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

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Qc

7  
Gl

8  
Al

9  
Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

L1337069-18,19,20,21,22,23,24,25,26,27,28

Method Blank (MB)

(MB) R3643208-1 04/17/21 21:47

| Analyte              | MB Result<br>mg/kg | MB Qualifier | MB MDL<br>mg/kg | MB RDL<br>mg/kg |
|----------------------|--------------------|--------------|-----------------|-----------------|
| C10-C28 Diesel Range | U                  |              | 1.61            | 4.00            |
| C28-C40 Oil Range    | 0.672              | ⬇            | 0.274           | 4.00            |
| (S) o-Terphenyl      | 64.9               |              |                 | 18.0-148        |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3643208-2 04/17/21 22:00

| Analyte              | Spike Amount<br>mg/kg | LCS Result<br>mg/kg | LCS Rec.<br>% | Rec. Limits<br>% | LCS Qualifier |
|----------------------|-----------------------|---------------------|---------------|------------------|---------------|
| C10-C28 Diesel Range | 50.0                  | 45.0                | 90.0          | 50.0-150         |               |
| (S) o-Terphenyl      |                       |                     | 52.1          | 18.0-148         |               |

L1337132-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1337132-01 04/18/21 00:49 • (MS) R3643208-3 04/18/21 01:02 • (MSD) R3643208-4 04/18/21 01:15

| Analyte              | Spike Amount<br>(dry)<br>mg/kg | Original Result<br>(dry)<br>mg/kg | MS Result (dry)<br>mg/kg | MSD Result<br>(dry)<br>mg/kg | MS Rec.<br>% | MSD Rec.<br>% | Dilution | Rec. Limits<br>% | MS Qualifier | MSD Qualifier | RPD<br>% | RPD Limits<br>% |
|----------------------|--------------------------------|-----------------------------------|--------------------------|------------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| C10-C28 Diesel Range | 67.9                           | 2.36                              | 54.6                     | 61.4                         | 76.8         | 86.9          | 1        | 50.0-150         |              |               | 11.8     | 20              |
| (S) o-Terphenyl      |                                |                                   |                          |                              | 36.0         | 53.0          |          | 18.0-148         |              |               |          |                 |

## Guide to Reading and Understanding Your Laboratory Report

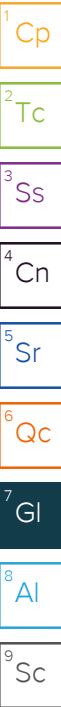
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

### Abbreviations and Definitions

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

| Qualifier | Description                                                                               |
|-----------|-------------------------------------------------------------------------------------------|
| B         | The same analyte is found in the associated blank.                                        |
| J         | The identification of the analyte is acceptable; the reported value is an estimate.       |
| J3        | The associated batch QC was outside the established quality control range for precision.  |
| P1        | RPD value not applicable for sample concentrations less than 5 times the reporting limit. |



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

|                                |             |                             |                  |
|--------------------------------|-------------|-----------------------------|------------------|
| Alabama                        | 40660       | Nebraska                    | NE-OS-15-05      |
| Alaska                         | 17-026      | Nevada                      | TN000032021-1    |
| Arizona                        | AZ0612      | New Hampshire               | 2975             |
| Arkansas                       | 88-0469     | New Jersey--NELAP           | TN002            |
| California                     | 2932        | New Mexico <sup>1</sup>     | TN00003          |
| Colorado                       | TN00003     | New York                    | 11742            |
| Connecticut                    | PH-0197     | North Carolina              | Env375           |
| Florida                        | E87487      | North Carolina <sup>1</sup> | DW21704          |
| Georgia                        | NELAP       | North Carolina <sup>3</sup> | 41               |
| Georgia <sup>1</sup>           | 923         | North Dakota                | R-140            |
| Idaho                          | TN00003     | Ohio--VAP                   | CL0069           |
| Illinois                       | 200008      | Oklahoma                    | 9915             |
| Indiana                        | C-TN-01     | Oregon                      | TN200002         |
| Iowa                           | 364         | Pennsylvania                | 68-02979         |
| Kansas                         | E-10277     | Rhode Island                | LA000356         |
| Kentucky <sup>1 6</sup>        | KY90010     | South Carolina              | 84004002         |
| Kentucky <sup>2</sup>          | 16          | South Dakota                | n/a              |
| Louisiana                      | AI30792     | Tennessee <sup>1 4</sup>    | 2006             |
| Louisiana                      | LA018       | Texas                       | T104704245-20-18 |
| Maine                          | TN00003     | Texas <sup>5</sup>          | LAB0152          |
| Maryland                       | 324         | Utah                        | TN000032021-11   |
| Massachusetts                  | M-TN003     | Vermont                     | VT2006           |
| Michigan                       | 9958        | Virginia                    | 110033           |
| Minnesota                      | 047-999-395 | Washington                  | C847             |
| Mississippi                    | TN00003     | West Virginia               | 233              |
| Missouri                       | 340         | Wisconsin                   | 998093910        |
| Montana                        | CERT0086    | Wyoming                     | A2LA             |
| A2LA -- ISO 17025              | 1461.01     | AIHA-LAP, LLC EMLAP         | 100789           |
| A2LA -- ISO 17025 <sup>5</sup> | 1461.02     | DOD                         | 1461.01          |
| Canada                         | 1461.01     | USDA                        | P330-15-00234    |
| EPA--Crypto                    | TN00003     |                             |                  |

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

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

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

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



**Tetra Tech, Inc.**

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Midland, Texas 79701  
Tel (432) 682-4559  
Fax (432) 682-3946

**E110**

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

|                                             |                                                                          |                           |                                                               |
|---------------------------------------------|--------------------------------------------------------------------------|---------------------------|---------------------------------------------------------------|
| <b>Client Name:</b>                         | Conoco Phillips                                                          | <b>Site Manager:</b>      | Christian Llull                                               |
| <b>Project Name:</b>                        | VGEU 19-01 Flowline Release                                              | <b>Contact Info:</b>      | Email: christian.llull@tetratech.com<br>Phone: (512) 338-1667 |
| <b>Project Location:</b><br>(county, state) | Lea County, New Mexico                                                   | <b>Project #:</b>         | 212C-MD-01840                                                 |
| <b>Invoice to:</b>                          | Accounts Payable<br>901 West Wall Street, Suite 100 Midland, Texas 79701 |                           |                                                               |
| <b>Receiving Laboratory:</b>                | Pace Analytical                                                          | <b>Sampler Signature:</b> | Joe Tyler                                                     |
| <b>Comments:</b>                            | COPTETRA Acctnum                                                         |                           |                                                               |

| LAB #<br>(LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING |  | MATRIX |  | PRESERVATIVE METHOD |  |  |  | # CONTAINERS | FILTERED (Y/N) | BTEX<br>BTEX 8021B<br>TPH TX1005 (Ext to C35) | BTEX<br>TPH 8015M ( GRO - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - DI - 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| Relinquished by: | Date:   | Time: | Received by: | Date:   | Time: |
| <i>Joe</i>       | 4.9.21  | 12:30 | <i>Joe</i>   | 4.9.21  | 12:30 |
| Relinquished by: | Date:   | Time: | Received by: | Date:   | Time: |
| <i>Joe</i>       | 4.9.21  | 14:30 | <i>Joe</i>   | 4.9.21  | 14:30 |
| Relinquished by: | Date:   | Time: | Received by: | Date:   | Time: |
| <i>Joe</i>       | 4-10-21 | 10:20 | <i>Joe</i>   | 4-10-21 | 10:20 |

|                                       |                                                               |
|---------------------------------------|---------------------------------------------------------------|
| <b>LAB USE ONLY</b>                   | <b>REMARKS:</b>                                               |
| Sample Temperature<br>23-1-22<br>4601 | <input checked="" type="checkbox"/> Standard                  |
|                                       | <input type="checkbox"/> RUSH: Same Day 24 hr. 48 hr. 72 hr.  |
|                                       | <input type="checkbox"/> Rush Charges Authorized              |
|                                       | <input type="checkbox"/> Special Report Limits or TRRP Report |

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #: \_\_\_\_\_





**Tetra Tech, Inc.**

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

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

|                       |                         |                                    |           |                                      |                                     |                |                     |     |                        |                            |                  |      |                |                |                      |                                             |                      |           |      |
|-----------------------|-------------------------|------------------------------------|-----------|--------------------------------------|-------------------------------------|----------------|---------------------|-----|------------------------|----------------------------|------------------|------|----------------|----------------|----------------------|---------------------------------------------|----------------------|-----------|------|
| BTEX 8021B BTEX 8260B | TPH TX1005 (Ext to C35) | TPH 8015M ( GRO - DRO - ORO - MRO) | PAH 8270C | Total Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC/MS Vol. 8260B / 624 | GC/MS Semi. Vol. 8270C/625 | PCB's 8082 / 608 | NORM | PLM (Asbestos) | Chloride 300.0 | Chloride Sulfate TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | TPH 8015R | HOLD |
|-----------------------|-------------------------|------------------------------------|-----------|--------------------------------------|-------------------------------------|----------------|---------------------|-----|------------------------|----------------------------|------------------|------|----------------|----------------|----------------------|---------------------------------------------|----------------------|-----------|------|

|                                             |                                                                          |                           |                                                                |
|---------------------------------------------|--------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------|
| <b>Client Name:</b>                         | Conoco Phillips                                                          | <b>Site Manager:</b>      | Christian Llull                                                |
| <b>Project Name:</b>                        | VGEU 19-01 Flowline Release                                              | <b>Contact Info:</b>      | Email: christian.llull@tetrattech.com<br>Phone: (512) 338-1667 |
| <b>Project Location:</b><br>(county, state) | Lea County, New Mexico                                                   | <b>Project #:</b>         | 212C-MD-01840                                                  |
| <b>Invoice to:</b>                          | Accounts Payable<br>901 West Wall Street, Suite 100 Midland, Texas 79701 |                           |                                                                |
| <b>Receiving Laboratory:</b>                | Pace Analytical                                                          | <b>Sampler Signature:</b> | Joe Tyler                                                      |
| <b>Comments:</b>                            | COPTETRA Acctnum                                                         |                           |                                                                |

| LAB #<br>( LAB USE ONLY ) | SAMPLE IDENTIFICATION | SAMPLING   |      | MATRIX |      | PRESERVATIVE METHOD |                  |     |      | # CONTAINERS | FILTERED (Y/N) |   |   |
|---------------------------|-----------------------|------------|------|--------|------|---------------------|------------------|-----|------|--------------|----------------|---|---|
|                           |                       | YEAR: 2021 |      | WATER  | SOIL | HCL                 | HNO <sub>3</sub> | ICE | NONE |              |                |   |   |
|                           |                       | DATE       | TIME |        |      |                     |                  |     |      |              |                |   |   |
| -11                       | BH-12 (3'-4')         | 04/08/21   |      |        | X    |                     |                  |     | X    |              |                | 1 | N |
| -12                       | BH-12 (4'-5')         | 04/08/21   |      |        | X    |                     |                  |     | X    |              |                | 1 | N |
| -13                       | BH-13 (0'-1')         | 04/08/21   |      |        | X    |                     |                  |     | X    |              |                | 1 | N |
| -14                       | BH-13 (2'-3')         | 04/08/21   |      |        | X    |                     |                  |     | X    |              |                | 1 | N |
| -15                       | BH-13 (3'-4')         | 04/08/21   |      |        | X    |                     |                  |     | X    |              |                | 1 | N |
| -16                       | BH-13 (4'-5')         | 04/08/21   |      |        | X    |                     |                  |     | X    |              |                | 1 | N |
| -17                       | BH-14 (0'-1')         | 04/08/21   |      |        | X    |                     |                  |     | X    |              |                | 1 | N |
| -18                       | BH-14 (2'-3')         | 04/08/21   |      |        | X    |                     |                  |     | X    |              |                | 1 | N |
| -19                       | BH-14 (3'-4')         | 04/08/21   |      |        | X    |                     |                  |     | X    |              |                | 1 | N |
| -20                       | BH-14 (4'-5')         | 04/08/21   |      |        | X    |                     |                  |     | X    |              |                | 1 | N |

|                  |        |       |                        |        |       |
|------------------|--------|-------|------------------------|--------|-------|
| Relinquished by: | Date:  | Time: | Received by:           | Date:  | Time: |
| <i>Joe L</i>     | 4.9.21 | 12:30 | <i>Christian Llull</i> | 4.9.21 | 12:30 |
| Relinquished by: | Date:  | Time: | Received by:           | Date:  | Time: |
| <i>Joe L</i>     | 4.9.21 | 14:30 | <i>Joe L</i>           | 4.9.21 | 14:30 |
| Relinquished by: | Date:  | Time: | Received by:           | Date:  | Time: |
| <i>Joe L</i>     | 4.9.21 | 10:20 | <i>Joe L</i>           | 4.9.21 | 10:20 |

**LAB USE ONLY**

Sample Temperature: 23.1 = 22.1  
 #608

**REMARKS:**

☒ Standard

☐ RUSH: Same Day 24 hr. 48 hr. 72 hr.

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #: \_\_\_\_\_





## Tetra Tech, Inc.

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

|                                      |                                                                          |                    |                                                                |
|--------------------------------------|--------------------------------------------------------------------------|--------------------|----------------------------------------------------------------|
| Client Name:                         | Conoco Phillips                                                          | Site Manager:      | Christian Llull                                                |
| Project Name:                        | VGEU 19-01 Flowline Release                                              | Contact Info:      | Email: christian.llull@tetrattech.com<br>Phone: (512) 338-1667 |
| Project Location:<br>(county, state) | Lea County, New Mexico                                                   | Project #:         | 212C-MD-01840                                                  |
| Invoice to:                          | Accounts Payable<br>901 West Wall Street, Suite 100 Midland, Texas 79701 |                    |                                                                |
| Receiving Laboratory:                | Pace Analytical                                                          | Sampler Signature: | Joe Tyler                                                      |
| Comments:                            | COPTETRA Acctnum                                                         |                    |                                                                |

ANALYSIS REQUEST  
(Circle or Specify Method No.)

| LAB #<br>(LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING   |      | MATRIX |      | PRESERVATIVE METHOD |      |     |      | # CONTAINERS | FILTERED (Y/N) | BTEX 8021B | BTEX 8260B | TPH TX1005 (Ext to C35) | TPH 8015M (GRO - DRO - ORO - MRO) | PAH 8270C | Total Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC/MS Vol. 8260B / 624 | GC/MS Semi. Vol. 8270C / 625 | PCBs 8082 / 608 | NORM | PLM (Asbestos) | Chloride 300.0 | Chloride Sulfate TDS | General Water Chemistry (see attached list) | Anion/Cation Balance | TPH 8015R | HOLD |  |
|-------------------------|-----------------------|------------|------|--------|------|---------------------|------|-----|------|--------------|----------------|------------|------------|-------------------------|-----------------------------------|-----------|--------------------------------------|-------------------------------------|----------------|---------------------|-----|------------------------|------------------------------|-----------------|------|----------------|----------------|----------------------|---------------------------------------------|----------------------|-----------|------|--|
|                         |                       | YEAR: 2021 |      | WATER  | SOIL | HCL                 | HNO3 | ICE | NONE |              |                |            |            |                         |                                   |           |                                      |                                     |                |                     |     |                        |                              |                 |      |                |                |                      |                                             |                      |           |      |  |
|                         |                       | DATE       | TIME |        |      |                     |      |     |      |              |                |            |            |                         |                                   |           |                                      |                                     |                |                     |     |                        |                              |                 |      |                |                |                      |                                             |                      |           |      |  |
| -21                     | BH-15 (0'-1')         | 04/08/21   |      | X      |      |                     | X    |     | 1    | N            | X              | X          | X          | X                       |                                   |           |                                      |                                     |                |                     |     |                        |                              |                 |      |                | X              |                      |                                             |                      |           |      |  |
| -22                     | BH-15 (2'-3')         | 04/08/21   |      | X      |      |                     | X    |     | 1    | N            | X              | X          | X          | X                       |                                   |           |                                      |                                     |                |                     |     |                        |                              |                 |      |                | X              |                      |                                             |                      |           |      |  |
| -23                     | BH-15 (3'-4')         | 04/08/21   |      | X      |      |                     | X    |     | 1    | N            | X              | X          | X          | X                       |                                   |           |                                      |                                     |                |                     |     |                        |                              |                 |      |                | X              |                      |                                             |                      |           |      |  |
| -24                     | BH-15 (4'-5')         | 04/08/21   |      | X      |      |                     | X    |     | 1    | N            | X              | X          | X          | X                       |                                   |           |                                      |                                     |                |                     |     |                        |                              |                 |      |                | X              |                      |                                             |                      |           |      |  |
| -25                     | BH-16 (0'-1')         | 04/08/21   |      | X      |      |                     | X    |     | 1    | N            | X              | X          | X          | X                       |                                   |           |                                      |                                     |                |                     |     |                        |                              |                 |      |                | X              |                      |                                             |                      |           |      |  |
| -26                     | BH-16 (2'-3')         | 04/08/21   |      | X      |      |                     | X    |     | 1    | N            | X              | X          | X          | X                       |                                   |           |                                      |                                     |                |                     |     |                        |                              |                 |      |                | X              |                      |                                             |                      |           |      |  |
| -27                     | BH-16 (3'-4')         | 04/08/21   |      | X      |      |                     | X    |     | 1    | N            | X              | X          | X          | X                       |                                   |           |                                      |                                     |                |                     |     |                        |                              |                 |      |                | X              |                      |                                             |                      |           |      |  |
| -28                     | BH-16 (4'-5')         | 04/08/21   |      | X      |      |                     | X    |     | 1    | N            | X              | X          | X          | X                       |                                   |           |                                      |                                     |                |                     |     |                        |                              |                 |      |                | X              |                      |                                             |                      |           |      |  |
|                         |                       |            |      |        |      |                     |      |     |      |              |                |            |            |                         |                                   |           |                                      |                                     |                |                     |     |                        |                              |                 |      |                |                |                      |                                             |                      |           |      |  |
|                         |                       |            |      |        |      |                     |      |     |      |              |                |            |            |                         |                                   |           |                                      |                                     |                |                     |     |                        |                              |                 |      |                |                |                      |                                             |                      |           |      |  |

|                  |        |       |                  |         |       |
|------------------|--------|-------|------------------|---------|-------|
| Relinquished by: | Date:  | Time: | Received by:     | Date:   | Time: |
| <i>Lea</i>       | 4.9.21 | 12:30 | <i>Joe Tyler</i> | 4.9.21  | 12:30 |
| Relinquished by: | Date:  | Time: | Received by:     | Date:   | Time: |
| <i>Lea</i>       | 4.9.21 | 14:30 | <i>SWA</i>       | 4.9.21  | 14:30 |
| Relinquished by: | Date:  | Time: | Received by:     | Date:   | Time: |
|                  |        |       | <i>Joe Tyler</i> | 4-10-21 | 10:20 |

## LAB USE ONLY

Sample Temperature

2.3-1=2.2  
Agot

## REMARKS:

- ☒ Standard
- ☐ RUSH: Same Day 24 hr. 48 hr. 72 hr.
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:



## Pace Analytical National Center for Testing & Innovation Cooler Receipt Form

|                                               |    |                         |    |
|-----------------------------------------------|----|-------------------------|----|
| Client: <u>CORTEVA</u>                        |    | <u>11377069</u>         |    |
| Cooler Received/Opened On: <u>4 / 10 / 21</u> |    | Temperature: <u>2.2</u> |    |
| Received By: <u>Delisha Kirkendoll</u>        |    |                         |    |
| Signature: <u>[Signature]</u>                 |    |                         |    |
|                                               |    |                         |    |
| Receipt Check List                            | NP | Yes                     | No |
| COC Seal Present / Intact?                    | /  |                         |    |
| COC Signed / Accurate?                        |    | /                       |    |
| Bottles arrive intact?                        |    | /                       |    |
| Correct bottles used?                         |    | /                       |    |
| Sufficient volume sent?                       |    | /                       |    |
| If Applicable                                 |    |                         |    |
| VOA Zero headspace?                           |    |                         |    |
| Preservation Correct / Checked?               |    |                         |    |

## **APPENDIX E**

# **Photographic Documentation**





|                                                  |             |                                        |           |
|--------------------------------------------------|-------------|----------------------------------------|-----------|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-01840 | DESCRIPTION | View north. Site signage at pump jack. | 1         |
|                                                  | SITE NAME   | VGEU 19-01 Flowline Release            | 7/16/2019 |



|                                                  |             |                                                               |           |
|--------------------------------------------------|-------------|---------------------------------------------------------------|-----------|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-01840 | DESCRIPTION | View southeast. Release area on the eastern side of the Site. | 2         |
|                                                  | SITE NAME   | VGEU 19-01 Flowline Release                                   | 7/16/2019 |





|                                                  |             |                                                          |           |
|--------------------------------------------------|-------------|----------------------------------------------------------|-----------|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-01840 | DESCRIPTION | View east. Area of release north/northwest of pump jack. | 3         |
|                                                  | SITE NAME   | VGEU 19-01 Flowline Release                              | 7/16/2019 |



|                                                  |             |                                                     |           |
|--------------------------------------------------|-------------|-----------------------------------------------------|-----------|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-01840 | DESCRIPTION | View overhead. Repaired flowline at release source. | 4         |
|                                                  | SITE NAME   | VGEU 19-01 Flowline Release                         | 7/16/2019 |



|                                                  |             |                                                  |           |
|--------------------------------------------------|-------------|--------------------------------------------------|-----------|
| TETRA TECH, INC.<br>PROJECT NO.<br>212C-MD-01840 | DESCRIPTION | View east. Southeastern portion of release area. | 5         |
|                                                  | SITE NAME   | VGEU 19-01 Flowline Release                      | 7/16/2019 |

## **APPENDIX F**

### **NMSLO Seed Mixture Details**



Custom Soil Resource Report  
Soil Map

## Custom Soil Resource Report

## MAP LEGEND

## Area of Interest (AOI)

 Area of Interest (AOI)

## Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

## Special Point Features

 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

 Spoil Area

 Stony Spot

 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

## Water Features

 Streams and Canals

## Transportation

 Rails

 Interstate Highways

 US Routes

 Major Roads

 Local Roads

## Background

 Aerial Photography

## 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: Lea County, New Mexico  
Survey Area Data: Version 17, Jun 8, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

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.

## Custom Soil Resource Report

## Map Unit Legend

| Map Unit Symbol                    | Map Unit Name                                     | Acres in AOI | Percent of AOI |
|------------------------------------|---------------------------------------------------|--------------|----------------|
| KU                                 | Kimbrough-Lea complex, dry, 0 to 3 percent slopes | 21.1         | 100.0%         |
| <b>Totals for Area of Interest</b> |                                                   | <b>21.1</b>  | <b>100.0%</b>  |

## 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.

## Custom Soil Resource Report

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.

## Custom Soil Resource Report

**Lea County, New Mexico****KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes****Map Unit Setting**

*National map unit symbol:* 2tw46  
*Elevation:* 2,500 to 4,800 feet  
*Mean annual precipitation:* 14 to 16 inches  
*Mean annual air temperature:* 57 to 63 degrees F  
*Frost-free period:* 180 to 220 days  
*Farmland classification:* Not prime farmland

**Map Unit Composition**

*Kimbrough and similar soils:* 45 percent  
*Lea and similar soils:* 25 percent  
*Minor components:* 30 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Kimbrough****Setting**

*Landform:* Plains, playa rims  
*Down-slope shape:* Linear, convex  
*Across-slope shape:* Linear, concave  
*Parent material:* Loamy eolian deposits derived from sedimentary rock

**Typical profile**

*A - 0 to 3 inches:* gravelly loam  
*Bw - 3 to 10 inches:* loam  
*Bkkm1 - 10 to 16 inches:* cemented material  
*Bkkm2 - 16 to 80 inches:* cemented material

**Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* 4 to 18 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.01 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 95 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water capacity:* Very low (about 1.4 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7s  
*Hydrologic Soil Group:* D  
*Ecological site:* R077DY049TX - Very Shallow 12-17" PZ  
*Hydric soil rating:* No



## Custom Soil Resource Report

**Description of Lea****Setting**

*Landform:* Plains

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age

**Typical profile**

*A - 0 to 10 inches:* loam

*Bk - 10 to 18 inches:* loam

*Bkk - 18 to 26 inches:* gravelly fine sandy loam

*Bkkm - 26 to 80 inches:* cemented material

**Properties and qualities**

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* 22 to 30 inches to petrocalcic

*Drainage class:* Well drained

*Runoff class:* High

*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 90 percent

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

*Sodium adsorption ratio, maximum:* 3.0

*Available water capacity:* Very low (about 2.9 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7s

*Hydrologic Soil Group:* D

*Ecological site:* R077DY047TX - Sandy Loam 12-17" PZ

*Hydric soil rating:* No

**Minor Components****Douro**

*Percent of map unit:* 12 percent

*Landform:* Plains

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Ecological site:* R077DY047TX - Sandy Loam 12-17" PZ

*Other vegetative classification:* Unnamed (G077DH000TX)

*Hydric soil rating:* No

**Kenhill**

*Percent of map unit:* 12 percent

*Landform:* Plains

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Ecological site:* R077DY038TX - Clay Loam 12-17" PZ

*Hydric soil rating:* No



Custom Soil Resource Report

**Spraberry**

*Percent of map unit:* 6 percent

*Landform:* Plains, playa rims

*Down-slope shape:* Linear, convex

*Across-slope shape:* Linear

*Ecological site:* R077DY049TX - Very Shallow 12-17" PZ

*Other vegetative classification:* Unnamed (G077DH000TX)

*Hydric soil rating:* No

**NMSLO Seed Mix****Coarse (CS)****COARSE (CS) SITES SEED MIXTURE:**

| COMMON NAME           | VARIETY            | APPLICATION<br>RATE (PLS/Acre) | DRILL<br>BOX |
|-----------------------|--------------------|--------------------------------|--------------|
| <b>Grasses:</b>       |                    |                                |              |
| Sand bluestem         | VNS, Southern      | 2.0                            | F            |
| Sideoats grama        | Vaughn, El Reno    | 2.0                            | F            |
| Blue grama            | Hachita, Lovington | 1.5                            | D            |
| Little bluestem       | Cimmaron, Pastura  | 1.5                            | F            |
| Sand dropseed         | VNS, Southern      | 1.0                            | S            |
| Plains bristlegrass   | VNS, Southern      | 0.75                           | D            |
| <b>Forbs:</b>         |                    |                                |              |
| Parry penstemon       | VNS, Southern      | 1.0                            | D            |
| Desert globemallow    | VNS, Southern      | 1.0                            | D            |
| White prairieclover   | Kaneb, VNS         | 0.5                            | D            |
| Sulfur buckwheat      | VNS, Southern      | 0.5                            | D            |
| <b>Shrubs:</b>        |                    |                                |              |
| Fourwing saltbush     | VNS, Southern      | 1.0                            | D            |
| Skunkbush sumac       | VNS, Southern      | 1.0                            | D            |
| Common winterfat      | VNS, Southern      | 1.0                            | F            |
| Fringed sagewort      | VNS, Southern      | 0.5                            | F            |
| <b>Total PLS/acre</b> |                    | <b>18.25</b>                   |              |

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

- VNS, Southern – No Variety Stated, seed should be from a southern latitude collection of this species.
- Double above seed rates for broadcast or hydroseeding.
- If Parry is not available, substitute firecracker penstemon.
- If desert globemallow is not available, substitute scarlet globemallow.
- If one species is not available, provide a suggested substitute to the New Mexico Land Office for approval. Increasing all other species proportionately may be acceptable.



|                |               |
|----------------|---------------|
| Incident ID    | NCH1903240708 |
| District RP    | 1RP-5304      |
| Facility ID    |               |
| Application ID | pCH1903241056 |

## Remediation Plan

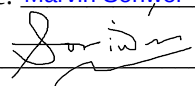
**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

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

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

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Marvin Soriwei Title: Program Manager, Risk Management & Remediation  
Signature:  Date: 8/11/2021  
email: marvin.soriwei@conocophillips.com Telephone: 8324862730

**OCD Only**

Received by: Robert Hamlet Date: 11/30/2021

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

Signature: Robert Hamlet Date: 11/30/2021

**District I**

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

**District II**

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

**District III**

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

**District IV**

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

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

CONDITIONS

Action 43418

**CONDITIONS**

|                                                                                    |                                                           |
|------------------------------------------------------------------------------------|-----------------------------------------------------------|
| Operator:<br>CONOCOPHILLIPS COMPANY<br>600 W. Illinois Avenue<br>Midland, TX 79701 | OGRID:<br>217817                                          |
|                                                                                    | Action Number:<br>43418                                   |
|                                                                                    | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Condition Date |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| rhamlet    | The Workplan/Remediation Plan is approved with the following conditions: Please make sure the floor confirmation samples are delineated/excavated to meet closure criteria standards for proven depth to water determination. Sidewall samples should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The variance for confirmation samples of 500 ft2 is approved. A deferral around critical infrastructure will need to be submitted after all possible contaminated soil is removed. Specifying exactly which sample points you are asking for a deferral on and the reason the contaminants cannot be removed. Only sample locations that are right adjacent to equipment and require a major deconstruction will be available for a deferral. Make sure all possible contaminated soil is removed before a deferral request is submitted to the OCD payment portal. | 11/30/2021     |